

# TELEFUNKEN SERVICE

AUDIOVISION  
AUDIOVISION  
AUDIOVISUEL

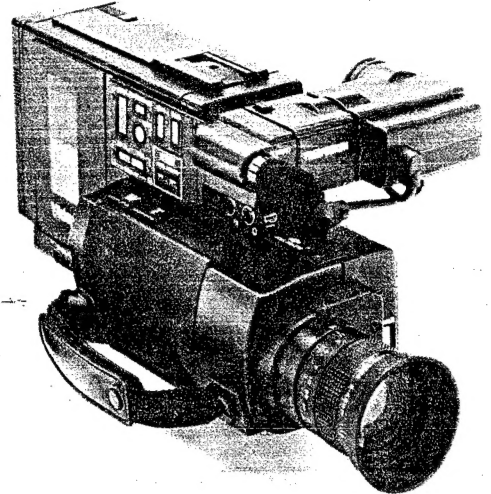
Camera-Recorder  
890 movie/1890 movie

Druck-Nr. 319 482 675

und Zubehör

Schaltpläne  
Lagepläne

Schematic Diagrams  
Component Layouts



Schutzgebühr 10,- DM

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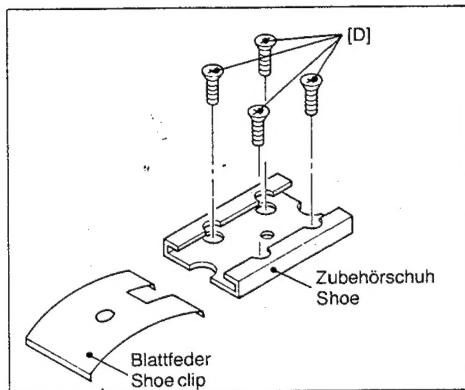
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## Ausbauhinweise

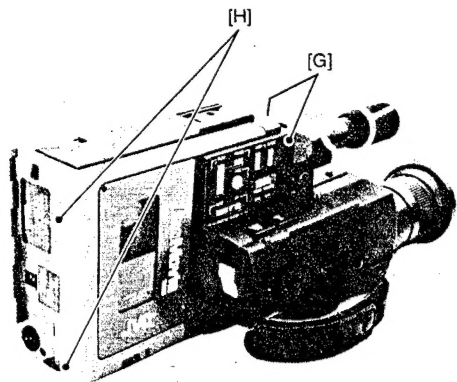
### 1. Gehäuse

- Zuerst die Blattfeder im Zubehörschuh anheben und herausziehen. 4 Schrauben [D] lösen und Zubehörschuh abnehmen.
- Deckplatte an den Punkten [E] anheben, um die Rastnasen zu lockern und dann in Pfeilrichtung [F] abziehen.



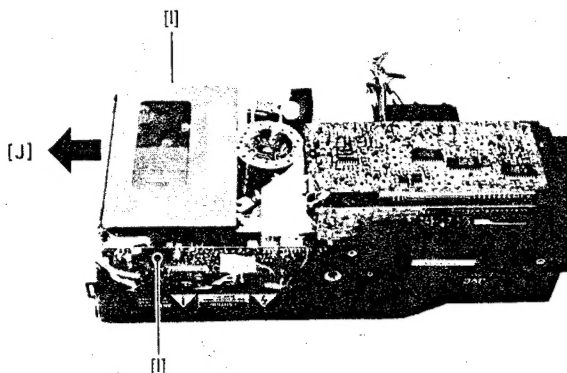
### 2. Gehäuse

- 2 Schrauben [G] und 4 Schrauben [H] herausdrehen, um die obere Gehäusenhälfte von der unteren zu lösen.



### 3. Cassettenfach-Abdeckung

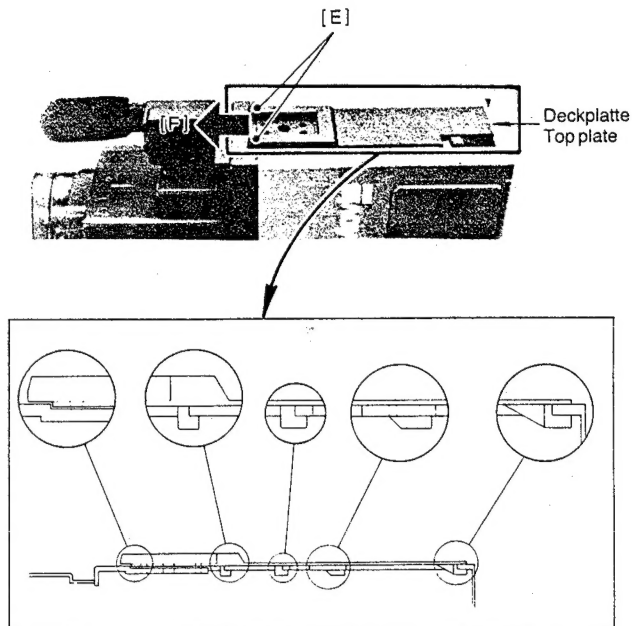
- 2 Schrauben [I] lösen. Cassettenfach-Abdeckung in Pfeilrichtung [J] abziehen.



## Disassembly

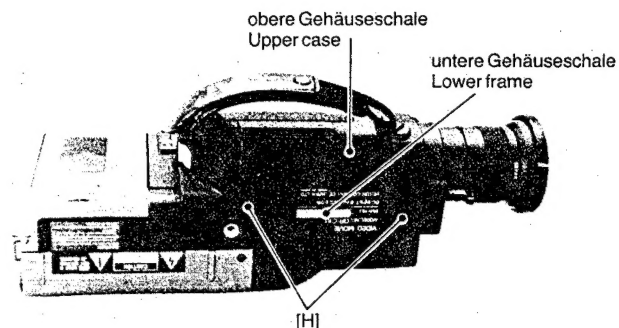
### 1. Top plate

- First remove the shoe clip by raising the part upwards and pulling it to the front. Then remove the 4 screws [D].
- Raise the two parts [E] of the top plate to unfasten its claws and then slide it in the direction of [F]:



### 2. Housing

- Remove the 2 screws [G] and 4 screws [H] to partially take off the upper case from the lower frame.

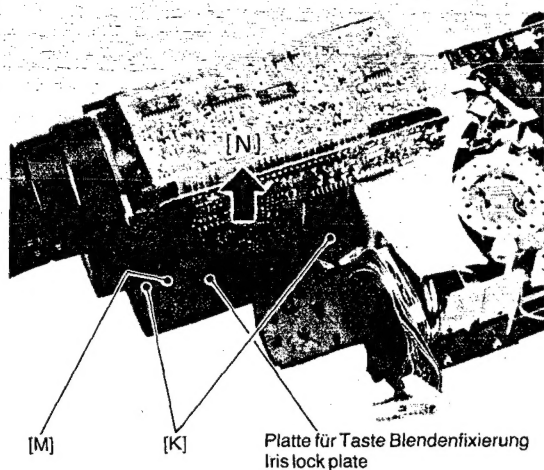


### 3. Cassette cover

- Remove the two screws [I]. Then the cassette cover can be removed by pulling it in the direction of [J].

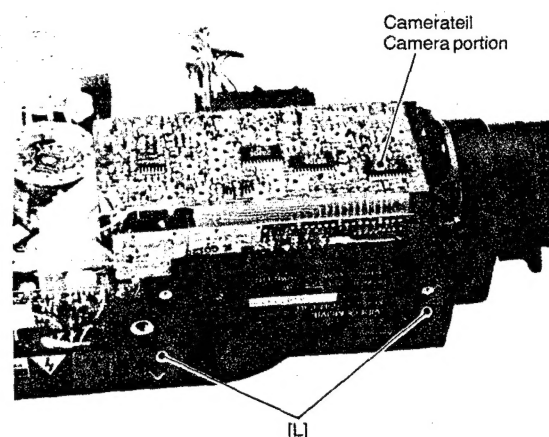
#### 4. Camerateil

Zunächst 2 Schrauben [K] und 2 Schrauben [L] lösen. Schraube [M] lösen und die Platte für Taste Blendenfixierung in Pfeilrichtung abnehmen. Dann das Camerateil nach oben herausnehmen.



#### 4. Camera portion

Remove the two screws [K] and two screw [L] first, and then remove a screw [M] to remove the iris lock plate by raising it upwards in the direction of [N]. After that, the camera can be removed by raising it upwards.



#### 5. Recorderteil

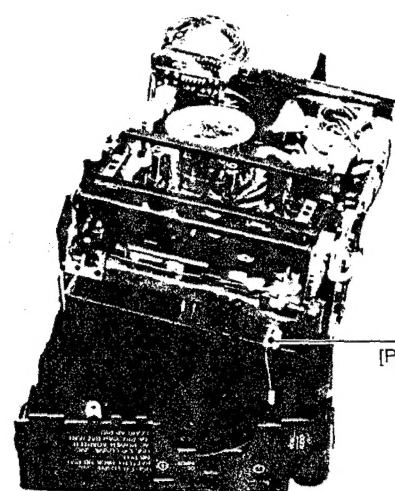
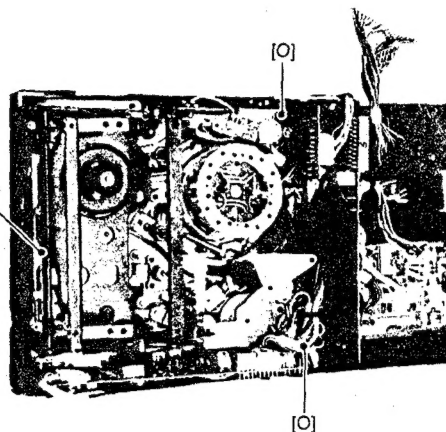
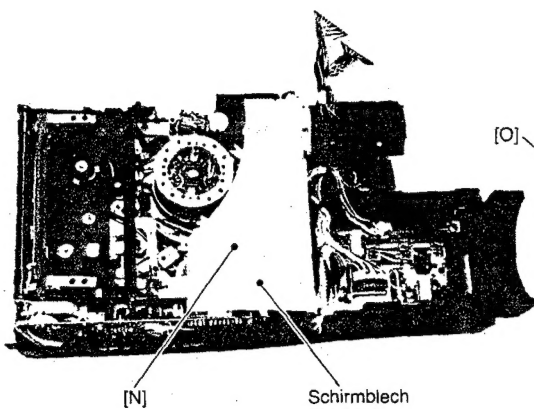
Schraube [N] und Abschirmung entfernen. 3 Schrauben [O] lösen und das Recorderteil nach oben herausnehmen (Stecker [P] abziehen).

**Hinweis:** Das Recorderteil sehr vorsichtig herausnehmen, um freiliegende mechanische Teile nicht zu beschädigen.

#### 5. Tape recorder

Remove the screw [N] and the shield plate. Remove the 3 screws [O]. Then remove the deck by pulling it upwards. (Remove connector [P].)

**Note:** When removing the deck, pay the most careful attention not to touch the mechanism parts exposed.



#### 6. E-E und Anzeigenplatte [2] [3]

3 Schrauben [Q] lösen und die Schaltungsplatte herausklappen.

#### 6. E-E and Indicator board [2] [3]

Remove the three screws [Q] so that the E-E & IND board can be opened to this side.

#### 7. Audio-Servoplatte [0] [4]

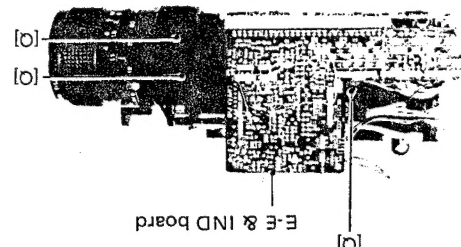
7 Stecker [R] abziehen und die Audio/Servoplatte in Pfeilrichtung [S] abziehen. Stecker für den Audio-Kopf abnehmen.

#### 7. Audio-Servo board [0] [4]

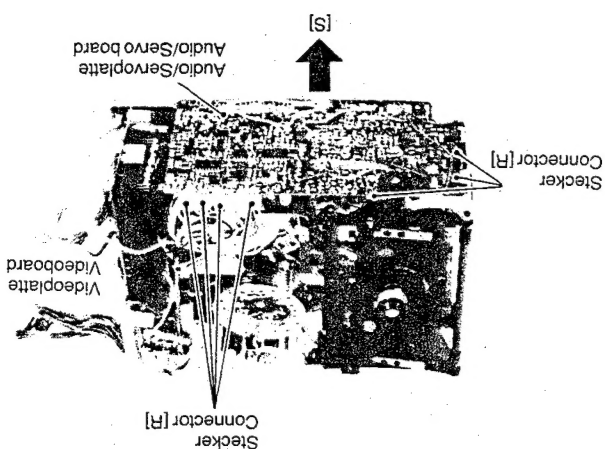
First remove the 7 connectors [R] and then remove the AUDIO/SERVO board by pulling it in the direction of the arrow [S]. Remove the connector for the audio head.

#### 8. Videoplatte [0] [2] nach oben abziehen.

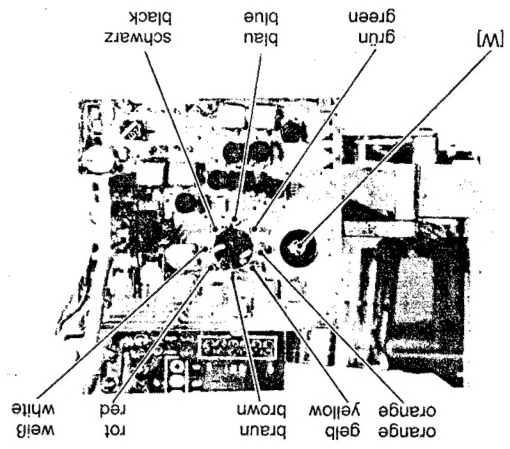
#### 8. Video board [0] [2] Pull out in upwards direction.



9. **Platte für Servoregelung und Mechaniksteuerung** [0] [1]  
Eine Schraube [T] und 2 Stecker [U] entfernen und 3 Stecker [V] abziehen.



9. **Mechacon/Servo board** [0] [1]  
Remove a screw [T] and the 2 connectors [U] to remove the MECHACON/SERVO board. Remove 3 connectors [V].



10. **Drum-Preamplifier**  
Remove the cover of the shield case, a screw [W] and desolder the eight wires to the drum.

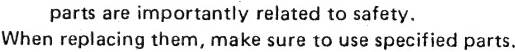
10. **Videokopf-Vorverstärker**  
Abschirmung und Schraube [W] entfernen und 8 Kopftrommelzuleitungen ablöten.



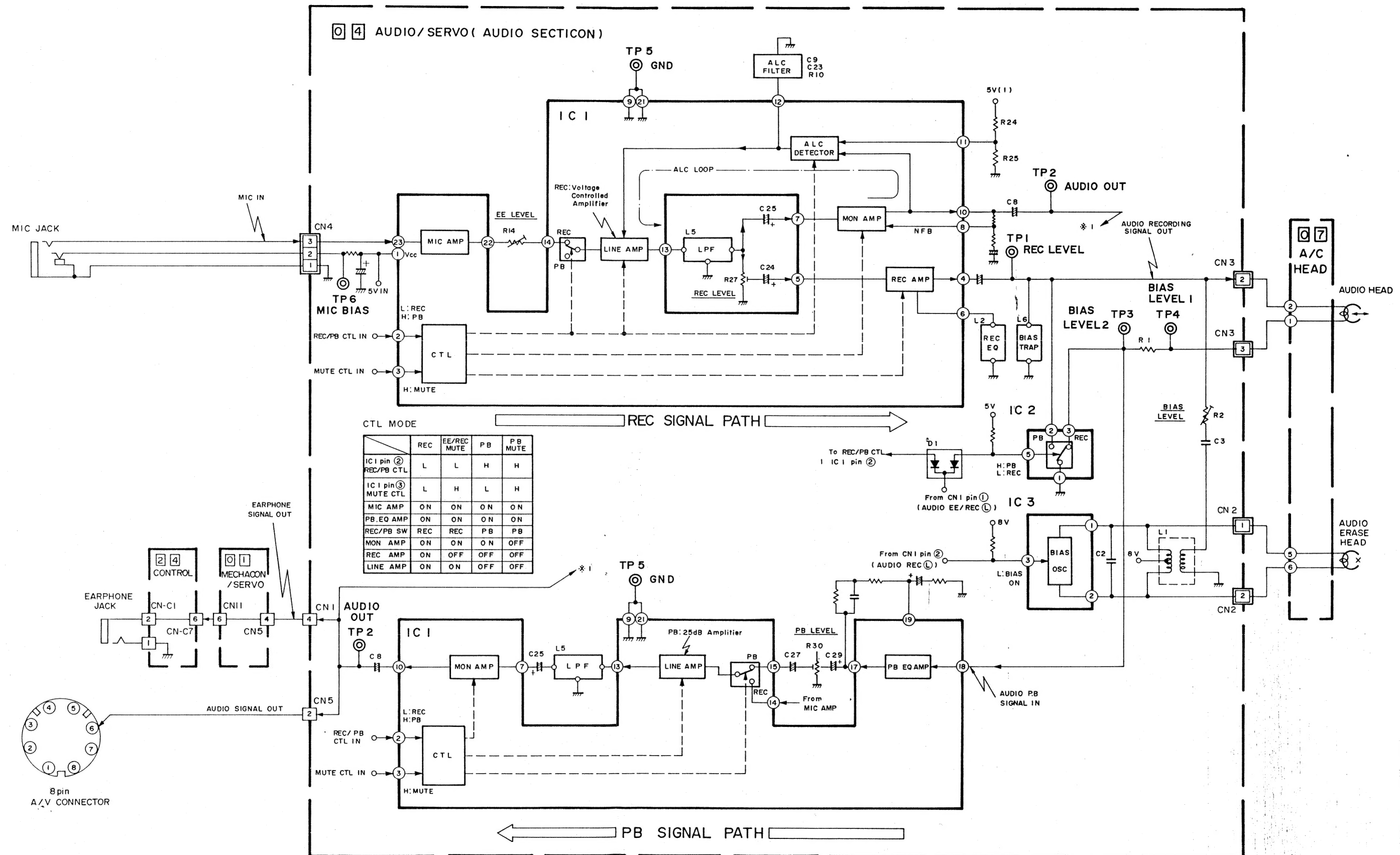
## Abkürzungen · Abbreviations

<b>A</b>			<b>CONN</b>	Steckverbinder	Connector	<b>ID</b>	Kennimpuls	Identification (Pulse)	<b>RS FF</b>	RS Flipflop	RS Flipflop
AC	Wechselstrom	Alternating Current	CP	Sicherung	Circuit Protector	IF	ZF	Intermediate Frequency	RST	rücksetzen	Reset
ACC	autom. Farbsteuerung	Automatic Color Control		Klemm-Impuls	Clamp Pulse	IFR	Infrarot	Infrared	R/P	Aufnahme/Wiedergabe	Record/Playback
A/CTL	Audio/Kontrollkopf	Audio/Control	<b>CPU</b>		Central Processing Unit	IFT	ZF-Übertrager	Intermediate Frequency Transformer	RPT	Wiederholung	Repeat
ADD	Addierstufe	Adder	CRT	Kathodenstrahlröhre	Cathode Ray Tube			Indicator	RT	Rotationsübertrager	Rotary Transformer
ADC	Analog/Digital-Konverter	Analog Digital Converter	C. SYNC	Synchronisation	Composite Synchronization	IND	Anzeige	Indicator	RUN	Bandlauf	Running
ADJ	Abgleich	Adjustment	C. SUP	Farb-Unterdrückung	Chroma Suppressor	INH	Inhibit	Inhibit	RY	Relais	Relay
ADUB	Nachvertonung	Audio Dub	CTC	Übersprechdämpfung	Crosstalk Cancel	INS	Insertschnitt	Insert			
AE	Audio Löschkopf	Audio Erase	CTL	Regelung	Control	INT	intern	Internal	<b>S</b>		
AEF	autom. Schnittfunktion	Automatic Editing Function	CRT. GEN	Schriftgenerator	Character Generator	INV	Inverter	Inverter	SAW	Sägezahnspannung	Sawtooth
AFC	autom. Frequenzsteuerung	Automatic Frequency Control	CVBS	FBAS-Signal	Chrominance, Video, Burst and Sync	I/O	Eingang/Ausgang	Input/Output	SC	Sub-Träger	Subcarrier
AFT	autom. Feinabstimmung	Automatic Fine Tuning				IR	Infrarot	Infrared	SCH	Suchlauf	Search
AGC	autom. Verstärkungsregelung	Automatic Gain Control							SEL	Auswahl	Select
AH	Audio-Kopf	Audio Head	<b>D</b>			<b>K</b>			SENS	Sensor	Sensor
AHD	Audio Aufzeichnungsdichte	Audio High Density	D	Kopftrommel	Drum	K	Kathode	Cathode	SENS CTL	Empfindlichkeitsregelung	Sensitivity Control
AL	Nach Einfädeln	After Loading	DAC	Digital/Analog-Konverter	Digital Analog Converter				SEP	Trennung	Separation
ALC	autom. Lichtkompens.	Automatic Light Compensation	dB	Dezibel	Decibel	<b>L</b>			SF	Sourcefolger	Source Follower
	Pegelregelung	Automatic Level Control	DC	Gleichstrom	Direct current	L	Low-Pegel (0)	Low	SFF	kurzes Vorspulen	Short Fast Forward
A/S/M	Audio/Servo/Mechaniksteuerung	Audio/Servo/Mechacon	DCC	Dunkelstromkompensation	Dark Current Compensator	LED		Light Emitting Diode	SFWD	Suchlauf vorwärts	Search Forward
			DD	Direkt-Antrieb	Direct Drive	LIN	Linearität	Linearity	SH	Farbschattierung	Shading
ALM	Alarm	Alarm	DEC	Decoder	Decoder	LIM	Begrenzer	Limiter	SIF	Ton-ZF	Sound Intermediate Frequency
ALU	arithm. Logikeinheit	Arithmetic Logic Unit	DEF	Ablenkung	Deflection	LOAD	Einfädeln	Loading	SN	Signal/Rausch-Abstand	Signal to Noise Ratio
AM	Amplituden-Modulation	Amplitude Modulation	DEMOND	Demodulator	Demodulator	LP	Langspielgeschwindigkeit	Long Play	SOL	Magnet	Solenoid
AMP	Verstärker	Amplifier	DEMUX	Demultiplexer	Demultiplexer	LPF	Tiefpaßfilter	Low-pass Filter	SOS	Ton-Mischbetrieb	Sound on Sound
ANT	Antenne	Antenna	DET	Detektor	Detector	LSB	unteres Seitenband	Lower Sideband	SP	Normalspiegelgeschwindigkeit	Standard Play
APC			DEV	Abweichung	Deviation				SR	Abwickelspulenteller	Supply Reel
	Phasenregelung	Automatic Pedestal Control	D. FOCUS	dyn. Focus	Dynamic Focus	<b>M</b>			SREV	Suchlauf rückwärts	Search Reverse
APL	durchschnittl. Videopegel	Average Picture Level	DFRS	Trommel-Freilauf Stoppsignal	Drum Free RUN STOP	M	Motor	Motor	SREW	kurzes Rückspulen	Short Rewind
ASS'Y	Einheit	Assembly	DIF TRANS	Differential-Transformator	Differential Transformer	MANU	manuell	Manual	S/S	Zeitupe/Standbild	Slow/Still
ATT	Abschwächer	Attenuator	DISCR	Discriminator	Discriminator	MAX	maximum	Maximum	SSG	Synchron-Impulsgenerator	Sync Signal Generator
AUTO	automatisch	Automatic	DL	Verzögerungsleitung	Delay Line	MDA	Motortreiberverstärker	Motor Drive Amplifier	S. SH	statische Farbschattierung	Static Shading
AUX	Reserveeingang	Auxiliary	DOC	Dropout Kompensation	Dropout Compensator	MECHACON	Mechaniksteuerung	Mechanism Control	SSNS	Startsensor	Start Sensor
AUD	Audio	Audio	D. SH	dyn. Shading-Regelung	Dynamic Shading	MIC	Mikrofon	Microphone	STD	Normal	Standard
AW	autom. Weißabgleich	Automatic White Balance	DYAC	Blendenregelung	Dynamic Aperture Control	MIN	Minimum	Mixer	SUP	Abwickelspule	Supply
						MIX	Mischstufe	Mixer	SW	Schalter	Switch
<b>B</b>			<b>E</b>			MMV	Monomultivibrator	Monostable Multivibrator	SWD	geschaltet	Switched
B	Chassis	Base	E	Schnitt	Edit	MOD	Modulator	Modulator	SW REG	Schaltregler	Switching Regulator
	Schwarz	Black	EDP	elektr. Datenverarbeitung	Electronic Data Processing	MODEM	Modulator-Demodulator	Modulator-Demodulator	SYNC	Synchronisation	Synchronization
	Blau	Blue	E-E	E-E	Electric to Electric	MON	Monitor	Monitor	SYNC SEP	Synchronimpuls Trennstufe	Sync Separator
BAL	Symmetrie	Balance	EF	Emitterfolger	Emitter-Follower	MOS	MOS	Metal Oxide Silicon	SYSCON	System-Überwachung	System Control
BATT	Akku	Battery	EMP	Vorverzerrung	Emphasis	MPX	Multiplexer	Multiplexer			
BATT. ALM	Akku-Anzeige	Battery Alarm	ENC	Encoder	Encoder	MS	Betriebsartwahl	Mode Select	<b>V</b>		
BBD	Eimerkettenspeicher	Bucket Brigade Device	EN	Enable	Enable	MUT	Tonabschaltung	Muting	V	vertikal	Vertical
B. BLK	Strahl-Austastung	Beam Blanking	ENV	Hüllkurve	Envelope				VCO	spannungsgesteuerter Oszillator	Voltage Controlled Oscillator
BCD	binär codiert dezimal	Binary Coded Decimal	EOT	Bandende	End of Tape	<b>N</b>			VD	vert. Treiberimpuls	Vertical Drive Pulse
BEAM DET	Elektronenstrahldetektor	Beam Detector	EP	Long Play	Extended Play	NAND	Not-And	Not-And	VP	vert. Parabelimpuls	Vertical Parabolic Pulse
BEG	Anfang	Beginning	EQ	Equalizer	Equalizer	NC	nicht belegt	Not Connected	VR	Poti	Variable Resistor
BFP	Burst Kennimpuls	Burst Flag Pulse	ES	Equalizer	Electronic Switch	ND	Dämpfungsfilter	Neutral Density (Filter)	VS	vert. Sägezahnimpuls	Vertical Sawtoothed Pulse
BIT	Bit	Binary Digit	ESNS	elektron. Schalter	End Sensor	NFB	Gegenkopplung	Negative Feedback	VXO	steuerbarer Quarzoszillator	Variable Crystal Oscillator
BLC	Ruhestromregelung	Back Light Control	EVF	Sucher	Electronic Viewfinder	NLN	nicht linear	Non-Linear	VLT	violet	Violet
BLK	schwarz	Black	EXP	Expander	Expander	NOR	normalerweise offen	Normally Open	V/T	Video/Fernsehen	Video/Television
BLU	blau	Blue	EXT	extern	External		normal	Normal	V/U	VHF/UHF	VHF/UHF
BNC	BNC-Buchse	Bayonet Connector				<b>O</b>			VSCH	variable Suchlaufgeschw.	Variable Search
BOT	Bandanfang	Beginning of Tape	<b>F</b>			OB	optischer Schwarzwert	Optical Black	<b>W</b>		
BPF	Bandpaß-Filter	Bandpass Filter	F ADV	Bildfortschaltung	Frame Advance	OPAMP	Operationsverstärker	Operational Amplifier	WARN	Warnanzeige	Warning
BRK	Bremse	Brake	F.B.T	Zeilenrafo	Flyback Transformer	OP	optisch	Optical	W. BAL	Weißabgleich	White Balance
BRN	braun	Brown	FDP	Display	Fluorescent Display Panel	ORN	orange	Orange	WHT	weiß	White
BRT	Helligkeit	Brightness	FE	Voll-Löschkopf	Full Erase	OSC	Oszillator	Oscillator	WV	Arbeits-Spannung	Working Voltage
BT	Bereichsabstimmung	Band Tuning	FET	FET	Field Effect Transistor				W & D	weiß und schwarz	White and Dark
BW or B/W	schwarz/weiß	Black and White	FF	schneller Vorlauf	Fast Forward						
						<b>P</b>			<b>X</b>		
<b>C</b>						PAR	Parabel	Parabola	XTAL	Quarz	Crystal
C	Kapazität	Capacitance	FG	Frequenzgenerator	Frequency Generator	PB	Wiedergabe	Playback			
C	Collector	Collector	FM	Frequenzmodulation	Frequency Modulation	PC	Photokoppler	Photocoupler	<b>Y</b>		
C (Chromal)	Farbsignal	Chrominance	FMA	frequenzmod. Audiosignal	FM Audio	PCM	Puls-Code-Modulation	Pulse Code Modulation	Y	Luminanzsignal	Luminance
CAP	Bandantrieb	Capstan	FR	Vollbilddaufnahme	Full Recording Frame	PED	Schwarzwert	Pedestal	YEL	gelb	Yellow
CAR	Träger	Carrier	FREQ	Frequenz	Frequency	PGM	Programm	Program	YL	Y-Signal, schmalbandig	Luminance Low Band Signal
CARR. BAL	Träger-Balance	Carrier Balance	F V CONV	Frequ./Spg-Konverter	Frequency to Voltage Converter	PG	Impulsgenerator	Pulse Generator	YW	Y-Signal, breitbandig	Luminance Wide Band Signal
CASS	Cassette	Cassette				PI	Lichtschränke	Photo Interrupter			
C. BLX	zusammengesetzter Tastimpuls	Composite Blanking				PLL	Phasenregelkreis	Phase Locked Loop			
						p-p	Spitze-Spitze	Peak-to-Peak			
CCD	Eimerkettenverzögerung	Charge Coupled Device	<b>G</b>			POS	Position	Position			
CCT	Schaltung	Circuit	G	Gate	Gate	PR	Andruckrolle	Pinch Roller			
CdS	Cadmium-Sulfid	Cadmium Sulphide				PREAMP	Vorverstärker	Preamplifier			
CD	abwärtszählen	Countdown				PRL	Umschwenken (Zwischenrad)	Preroll			
CENT	Mitte	Center	GEN	Gitter-Elektrode	Generator	P/S	Pause/Standbild	Pause/Still			
CF	Keramikfilter	Ceramic Filter, Color Frame	GND	Generator	Ground	PSC	Impuls-Anstiegssteuerung	Pulse Swallowing Control			
CC	Cassettschacht	Cassette Compartment	GRN	Masse	Green	PU	Aufnehmer	Pickup			
CE	Chip Enable	Chip Enable	GRY	grün	Gray	PWB	Schaltungsplatte	Printed Wiring Board			
CH	Kanal	Channel				PWM	Pulsbreitenmodulation	Pulse Width Modulation			
CHG	Last	Charge	<b>H</b>			PWR	Stromversorgung	Power			
CHROMA	Helligkeitssignal	Chrominance	H	High-Pegel (1)	High				<b>Q</b>		
CLK	Takt	Clock	H	Horizontal	Horizontal	Q	Güte	Quality Factor			
CLR	Löschen	Clear	HBF	horiz. Burst Kennimpuls	Horizontal Burst Flag Pulse				<b>R</b>		
CMOS		Complementary Metal Oxide Silicon	H. CENT	horiz. Mitte	Horizontal Center	RA	rot	Red	RAM	Widerstands-Array	Resistor Array
			HD	horiz. Treiberimpuls	Horizontal Drive Pulse	REC	Aufnahme	Recording	RAM	Random Access Memory	
CMD	Befehl	Command	HG	Hallgenerator	Hall Generator	REF	Bezug, Referenz	Reference	REC	Referenz	Reference
CNT	Zähler	Count, Counter	HP	horiz. Linearität	Horizontal Linearity	REG	Regler	Regulator	REMOCON	Remote Control	Remote Control
CONV	Umsetzer	Converter	HPF	horiz. Parabelimpuls	Horizontal Parabolic Pulse	REV	Fernsteuerung	Reverse	REW	Reverse	Reverse
COL	Farbe	Color	HS	hochpaßfilter	High-pass Filter	RF	Rückspulen	Rewind			
COM	gemeinsamer Anschluß	Common	HV	horiz. Sägezahn	Horizontal Sawtoothed Pulse						
COMB	Zusammensetzung	Combination	H. WIDTH	Hochspannung	High Voltage						
	Kammfilter	Comb Filter		Bildbreite	Horizontal Width						
COMP	Vergleichsstufe	Comparator	<b>I</b>								
	Zusammengesetzt	Composite	IC	integrierte Schaltung	Integrated Circuit						
	Ausgleich	Compensation									

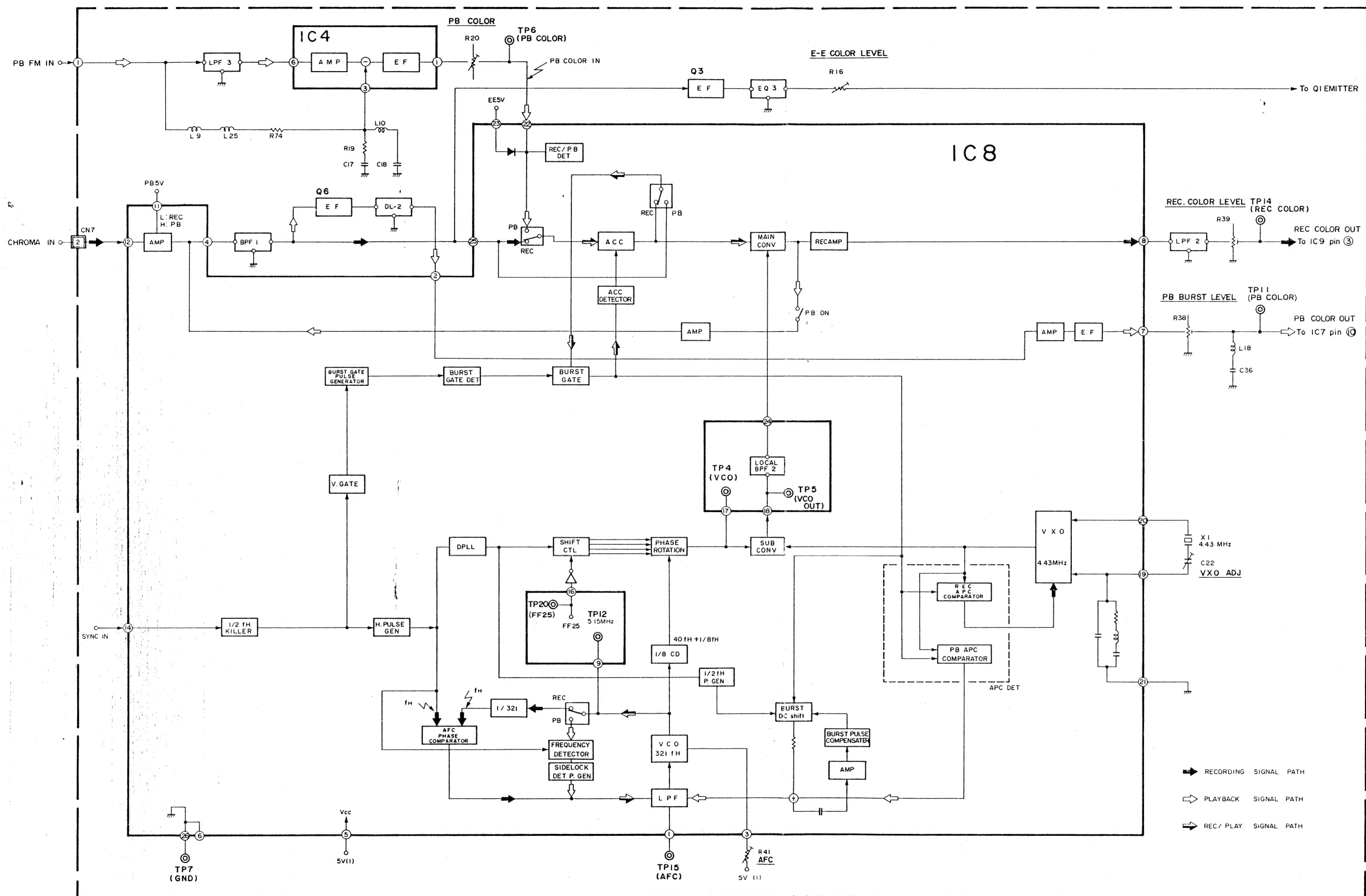
## 8



Audio-Blockschaltbild  
Audio block diagram

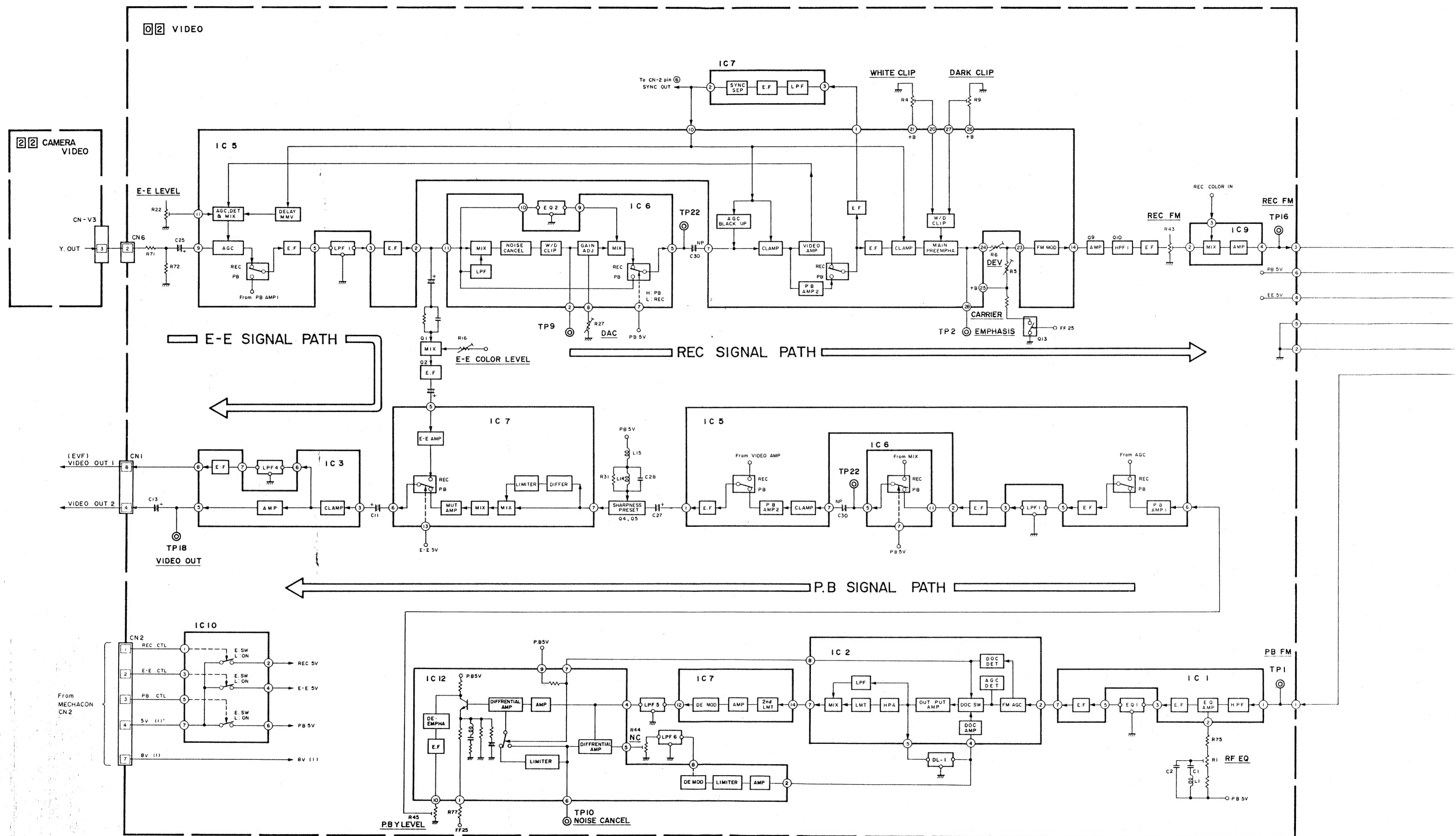


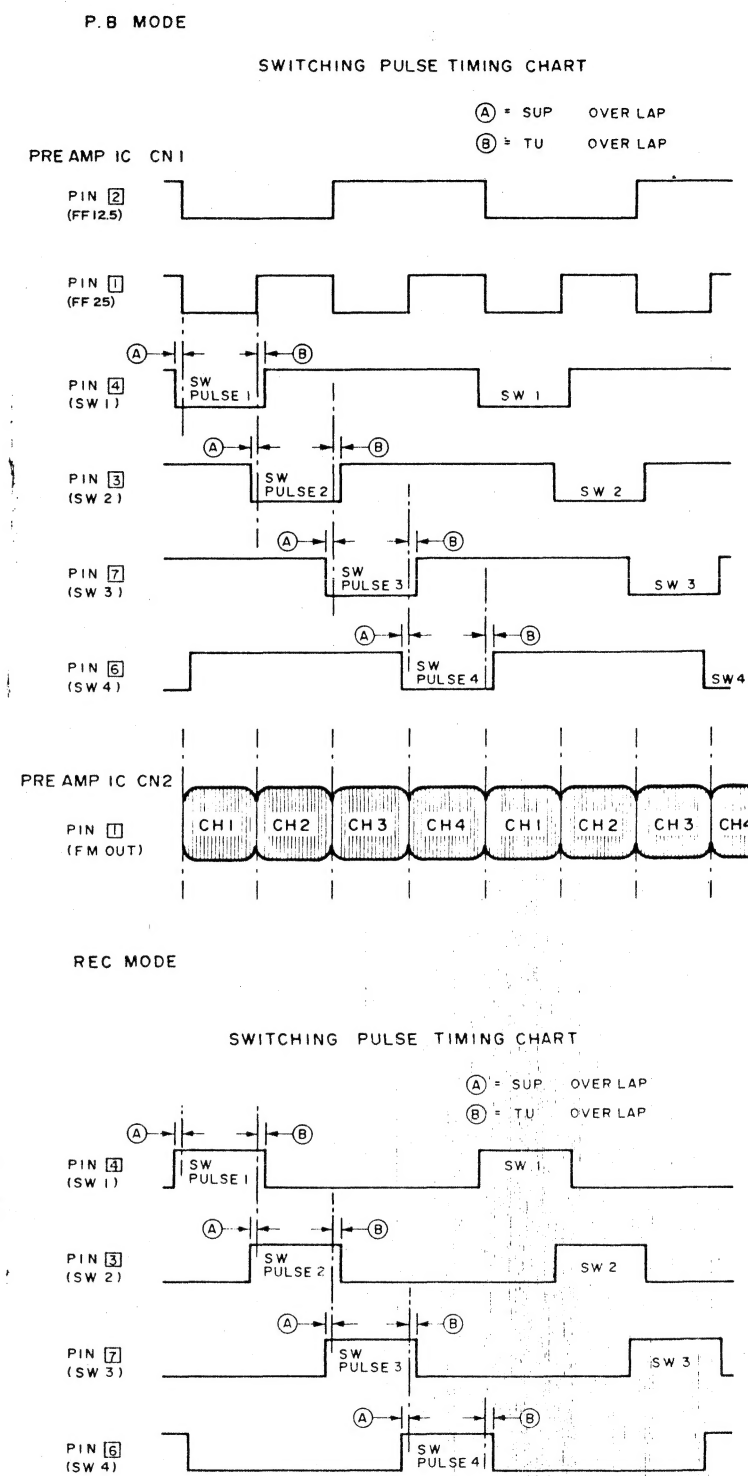
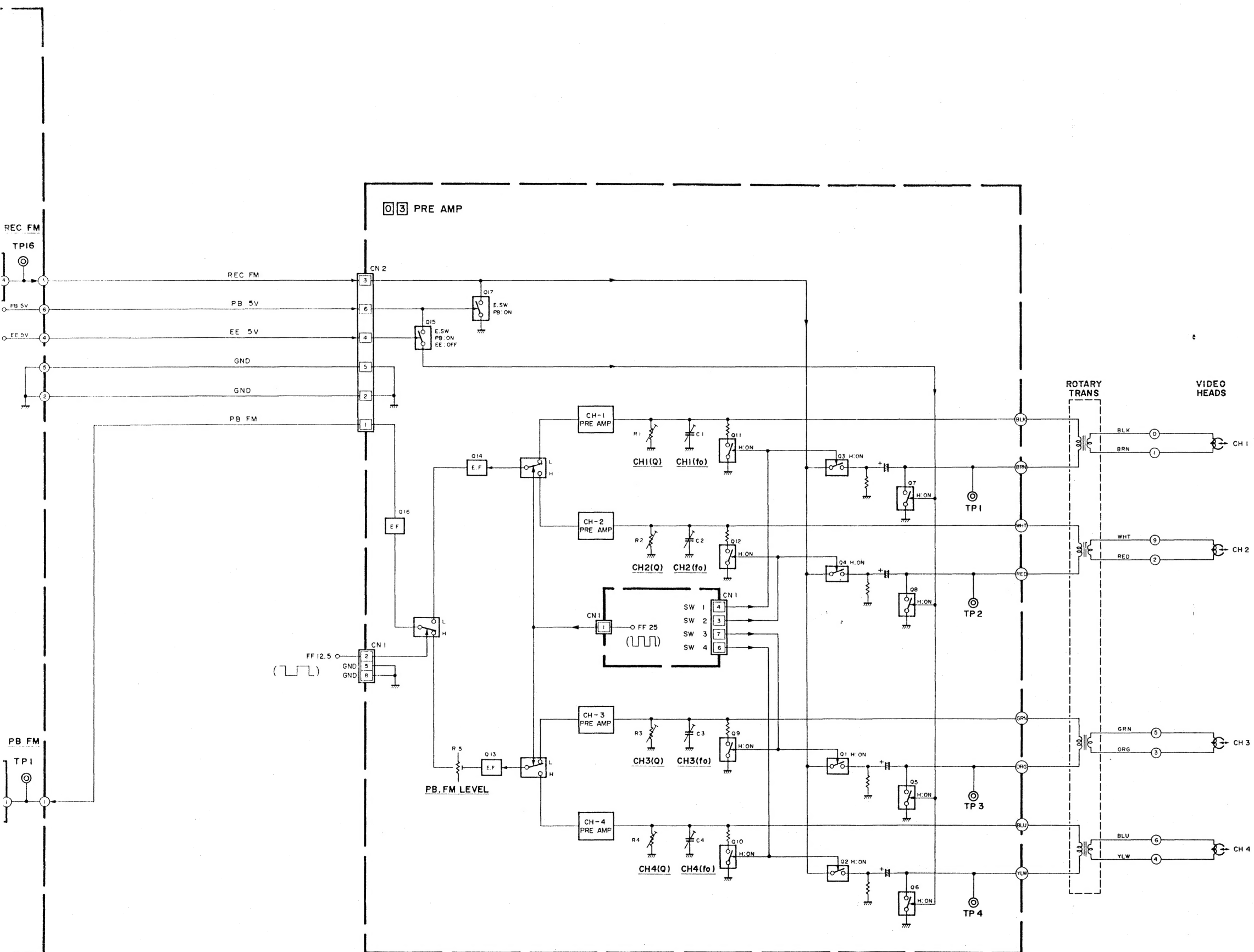
Video-Blockschaltbild (Farbsignal)  
Video block diagram (chroma signal)





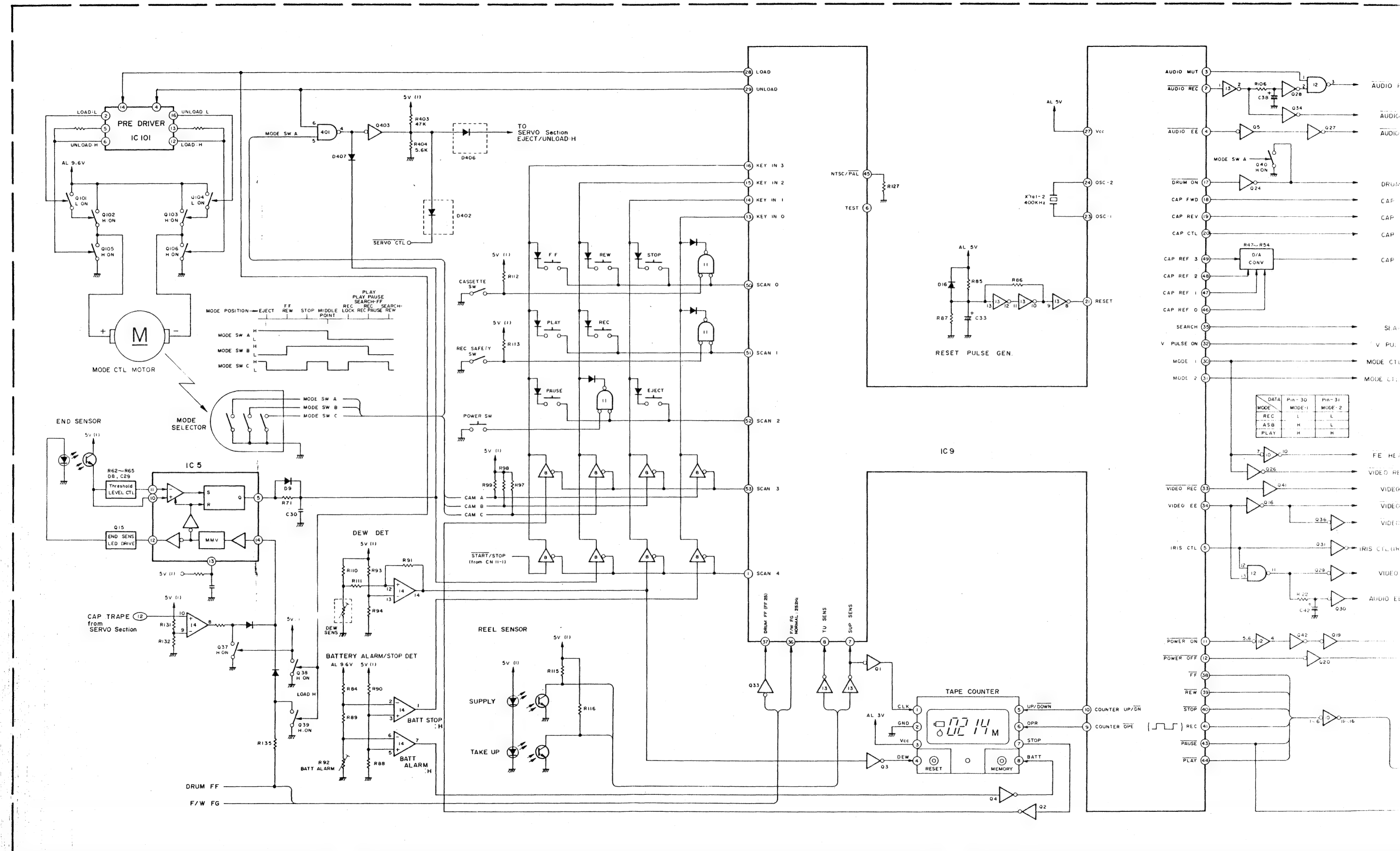
**Video-Blockschaltbild (Luminanzsignal)**  
**Video block diagram (luminance signal)**



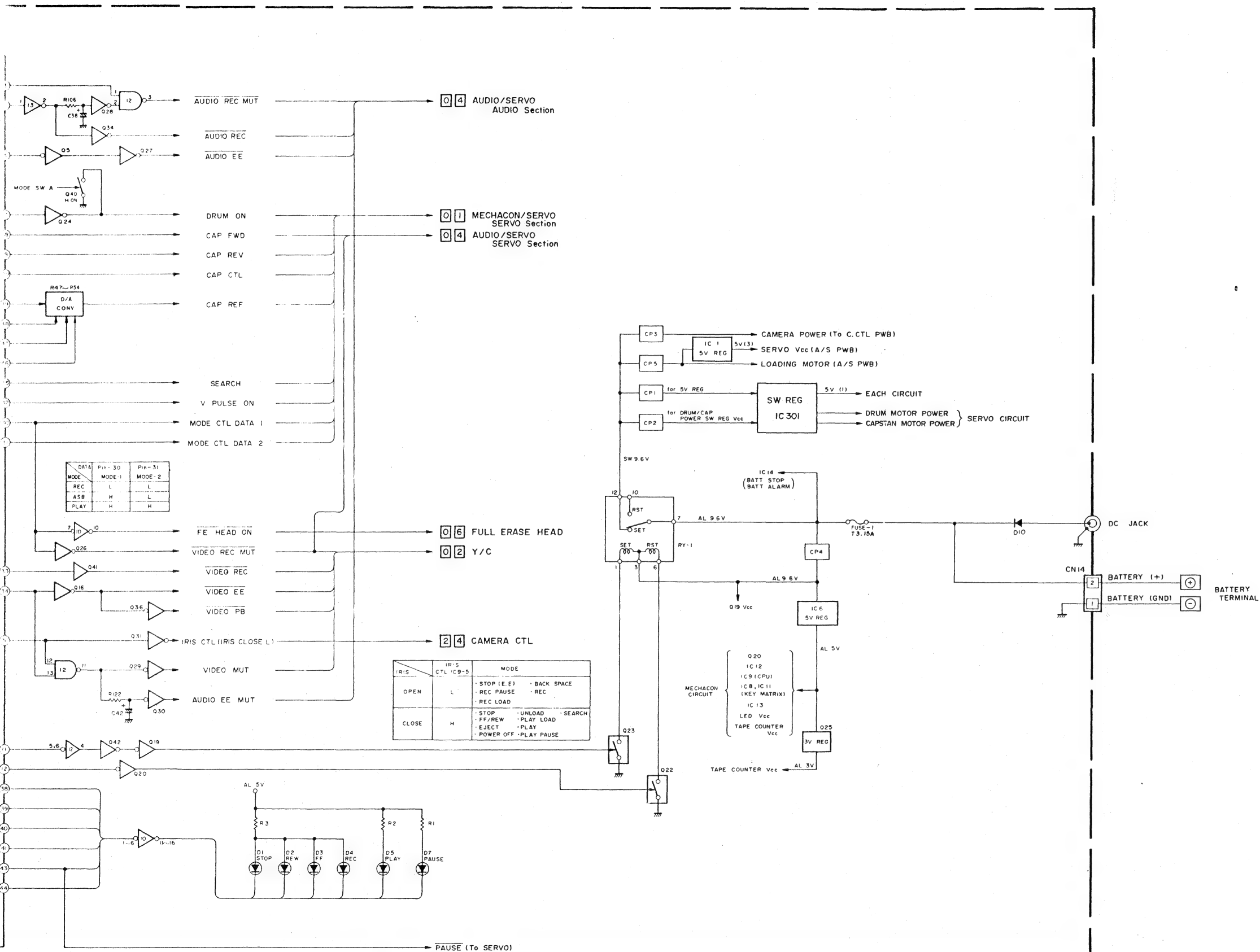




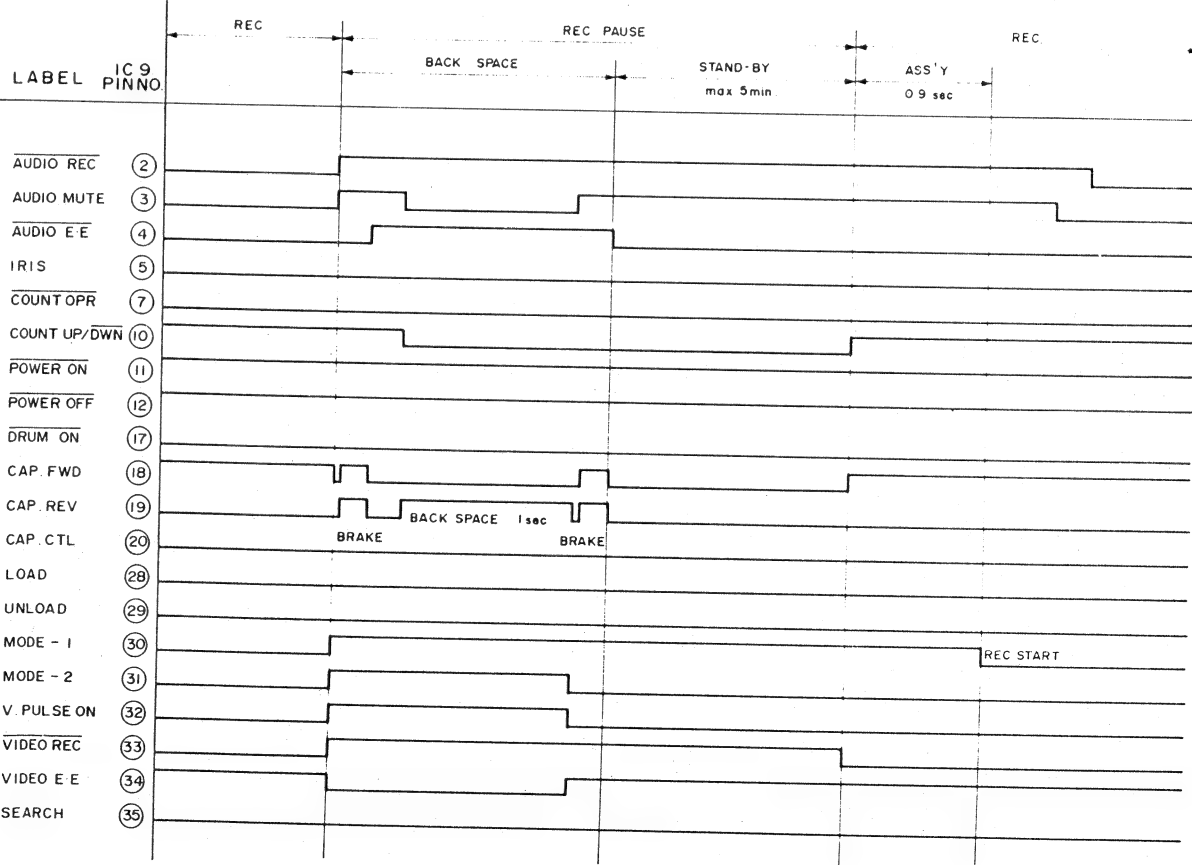
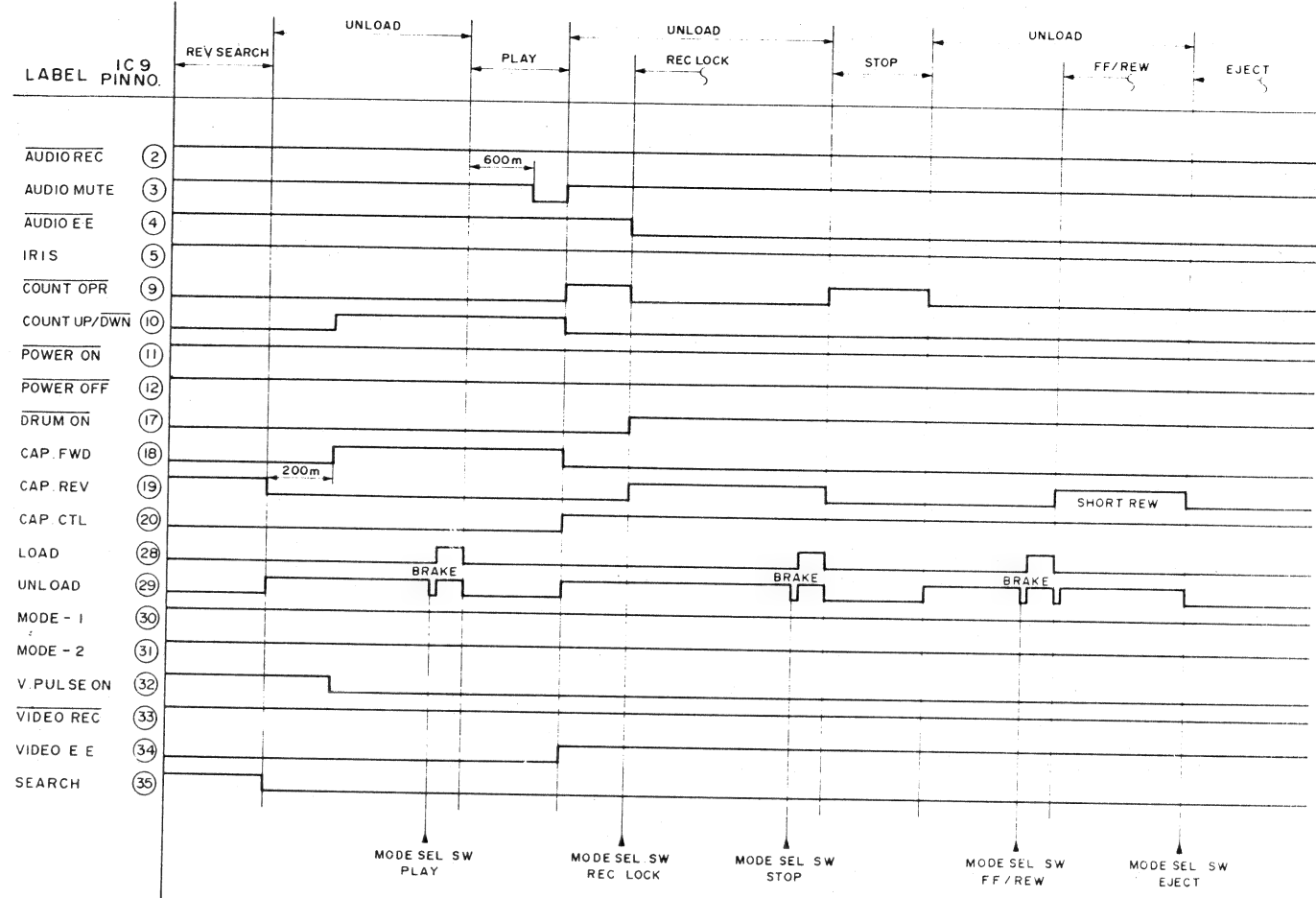
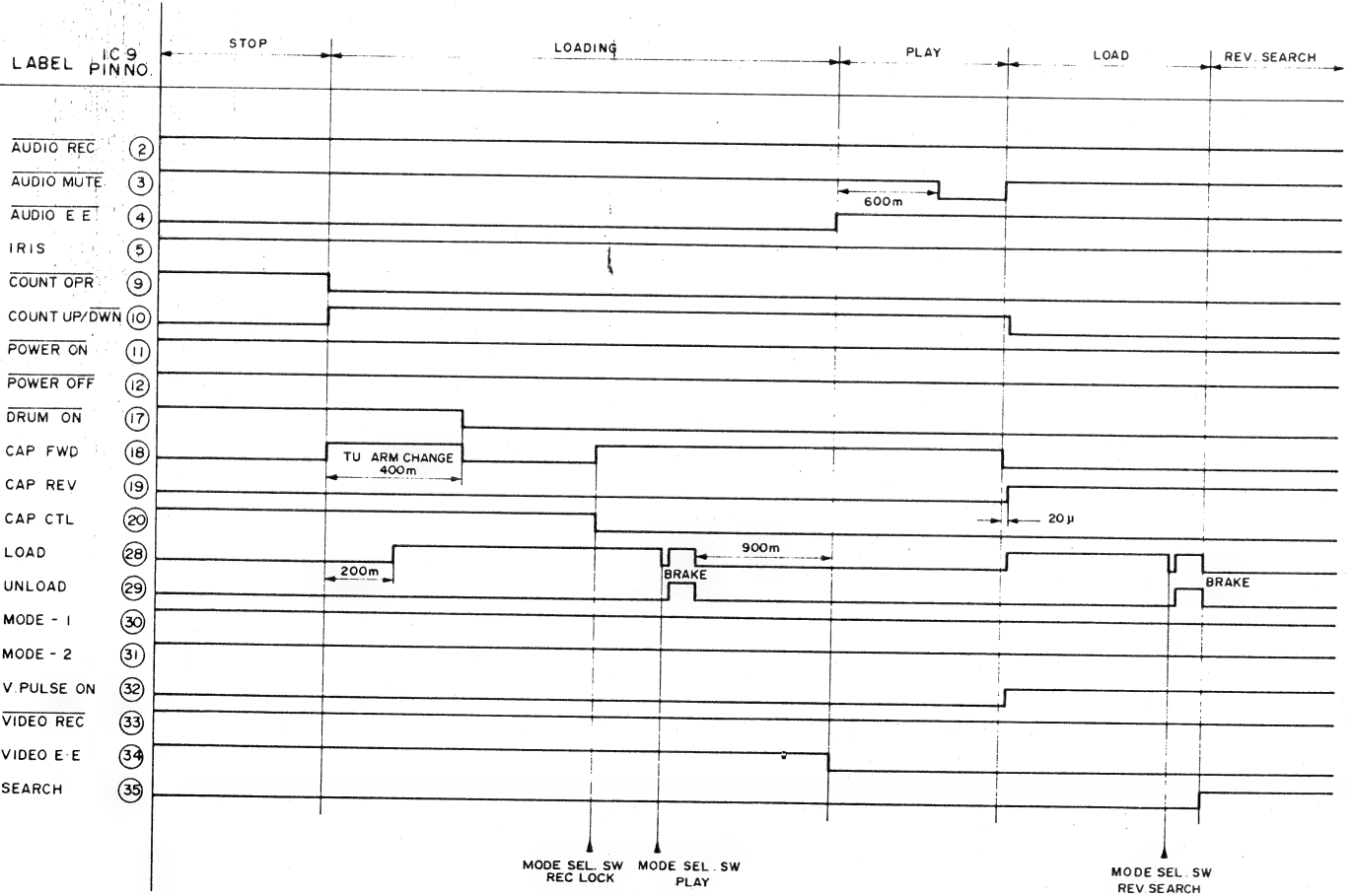
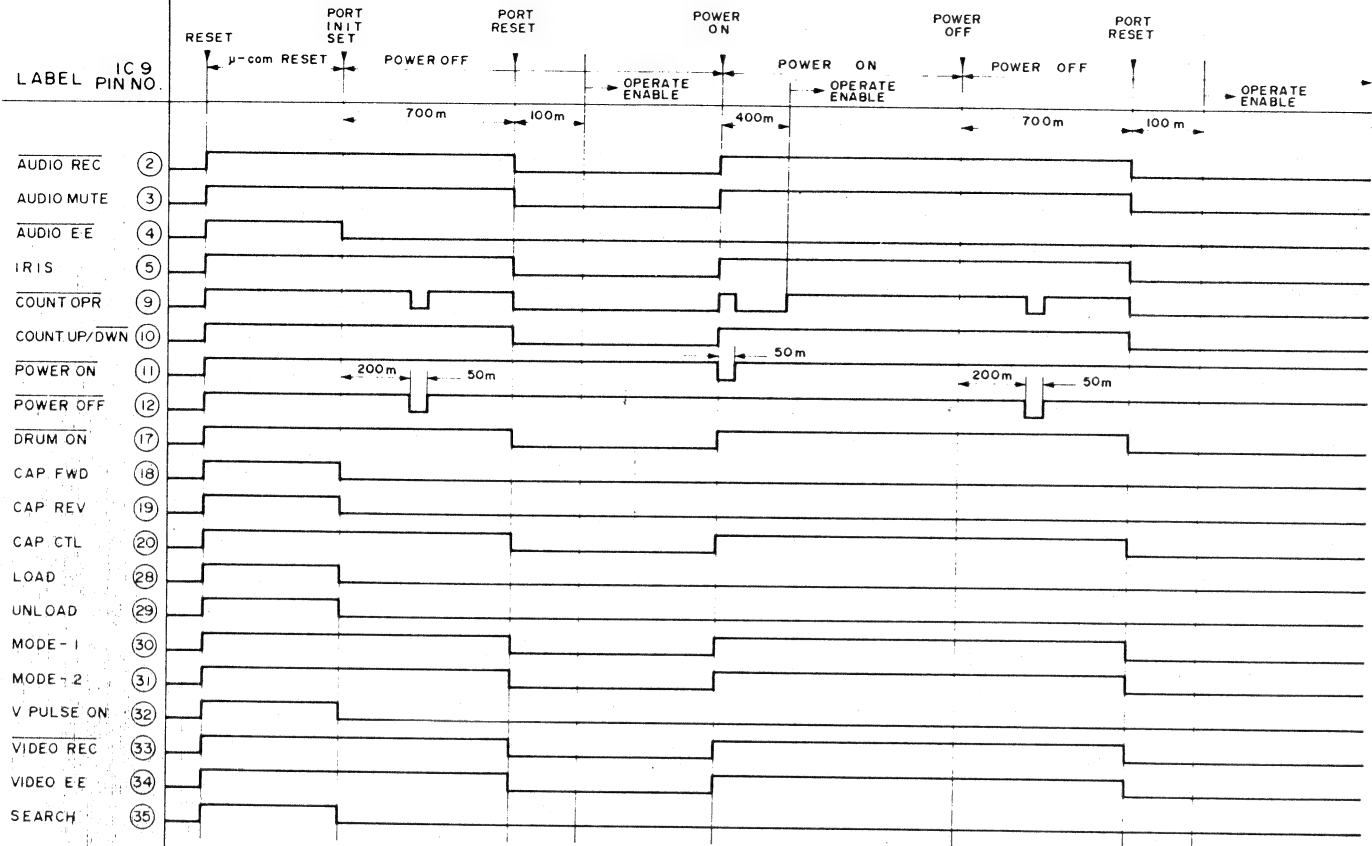
# Mechaniksteuerung Blockschaltbild Mechacon block diagram



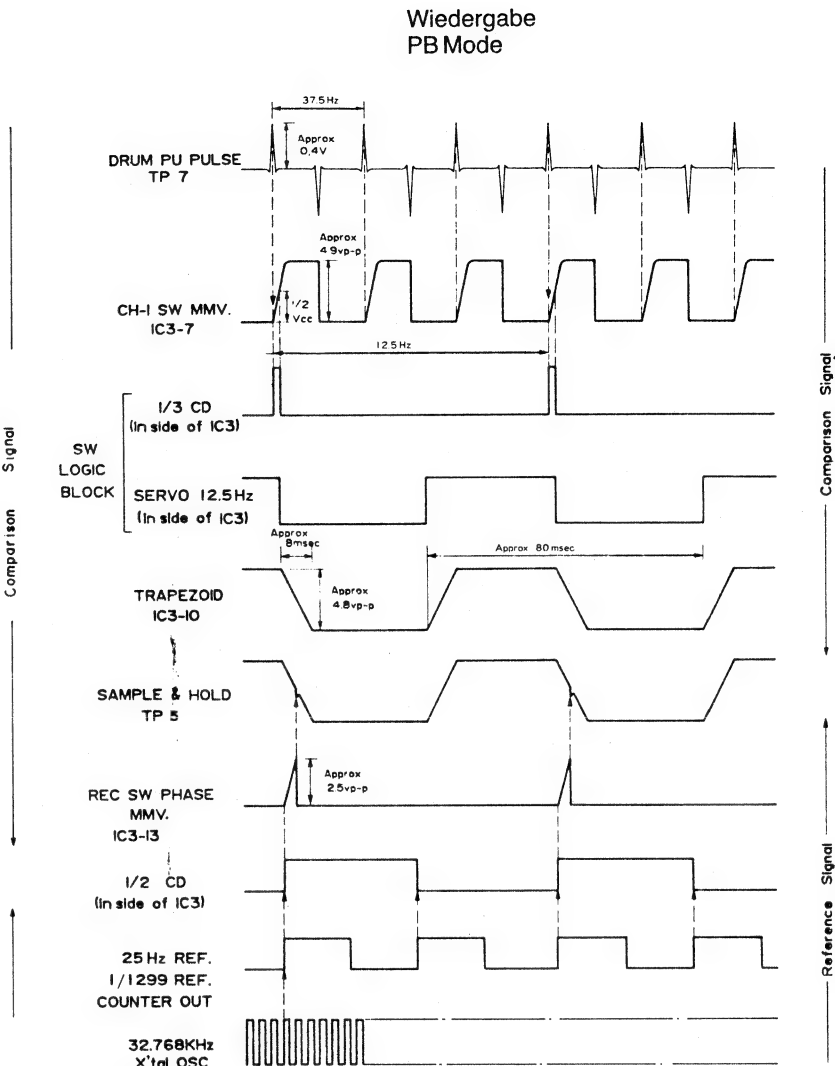
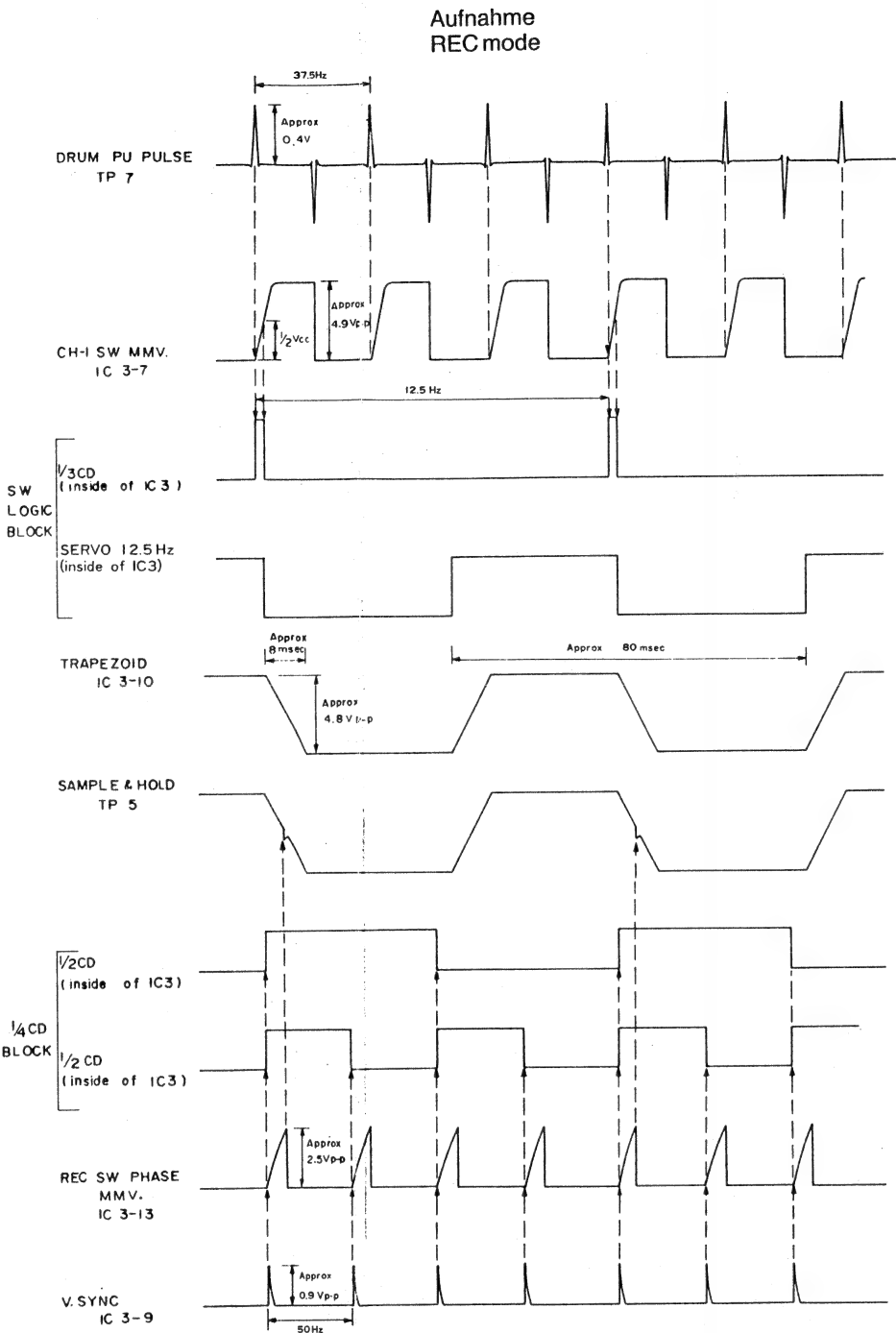
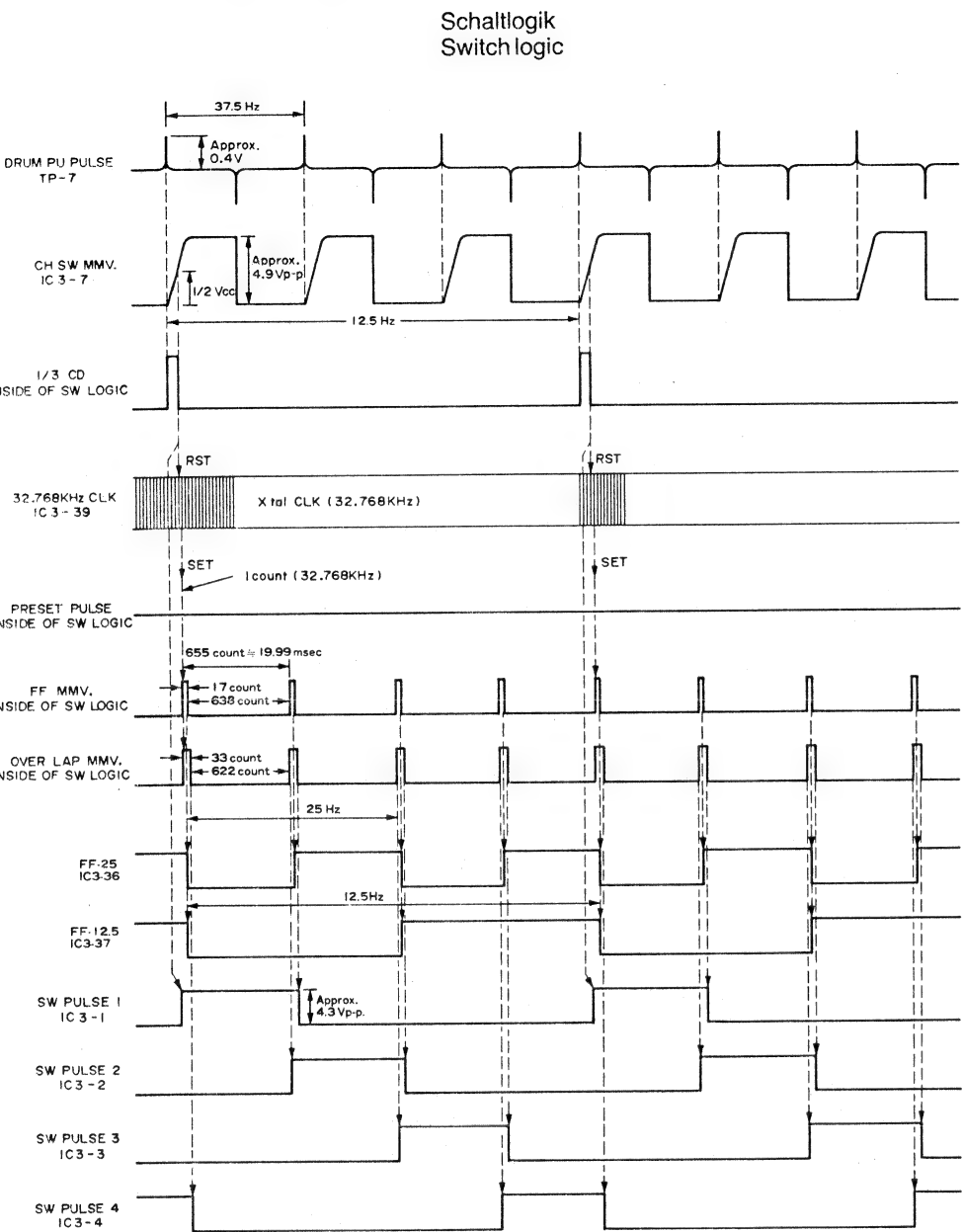
## Mechaniksteuerung Blockschaltbild



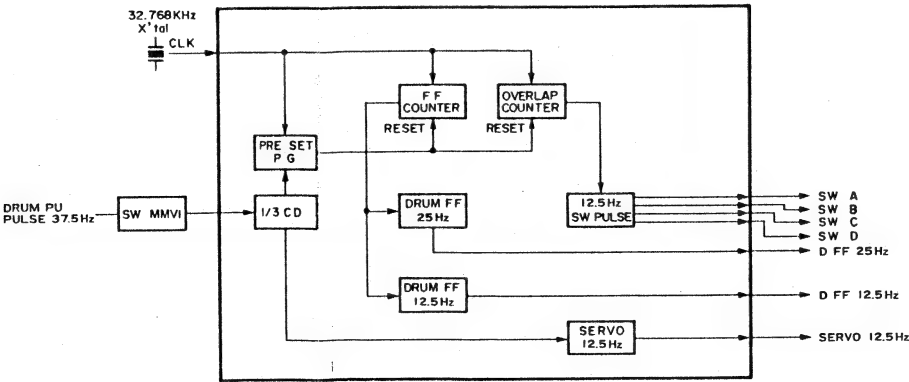
Mechaniksteuerung Impulsdiagramm  
Mechacon timing chart

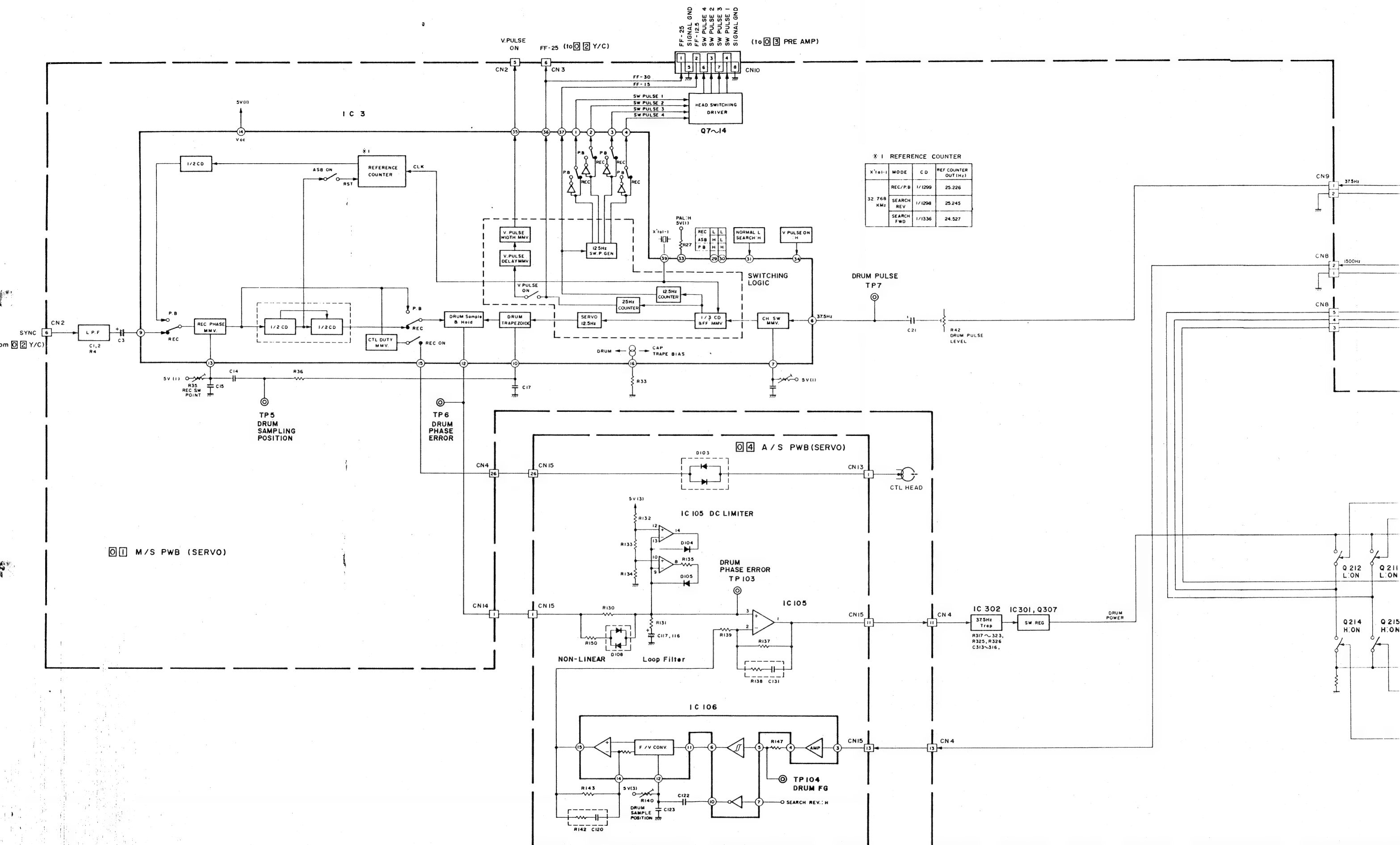


Kopftrommelservo Impulsdiagramm  
Drum servo timing chart



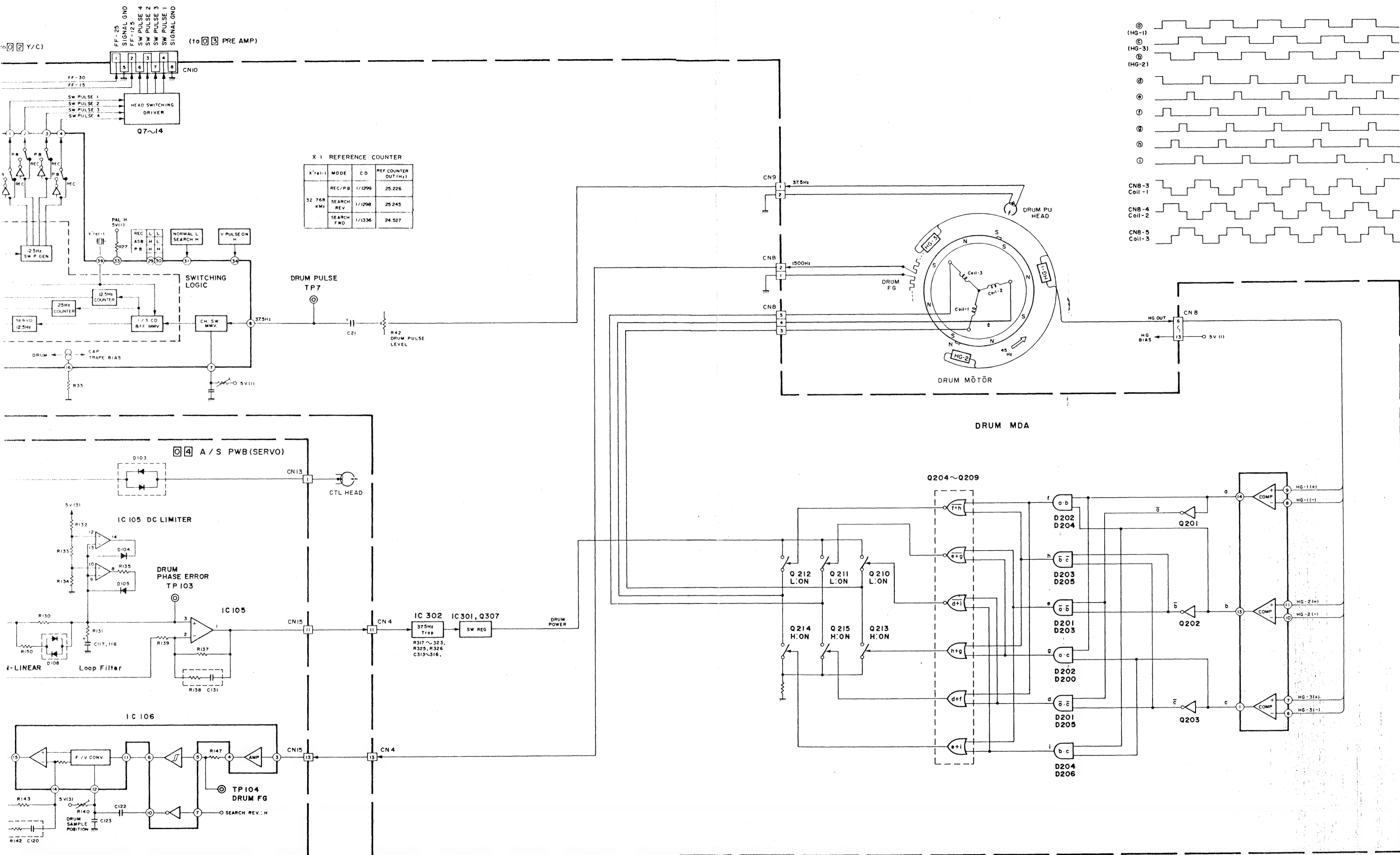
IC3 SWITCHING LOGIC BLOCK DIAGRAM



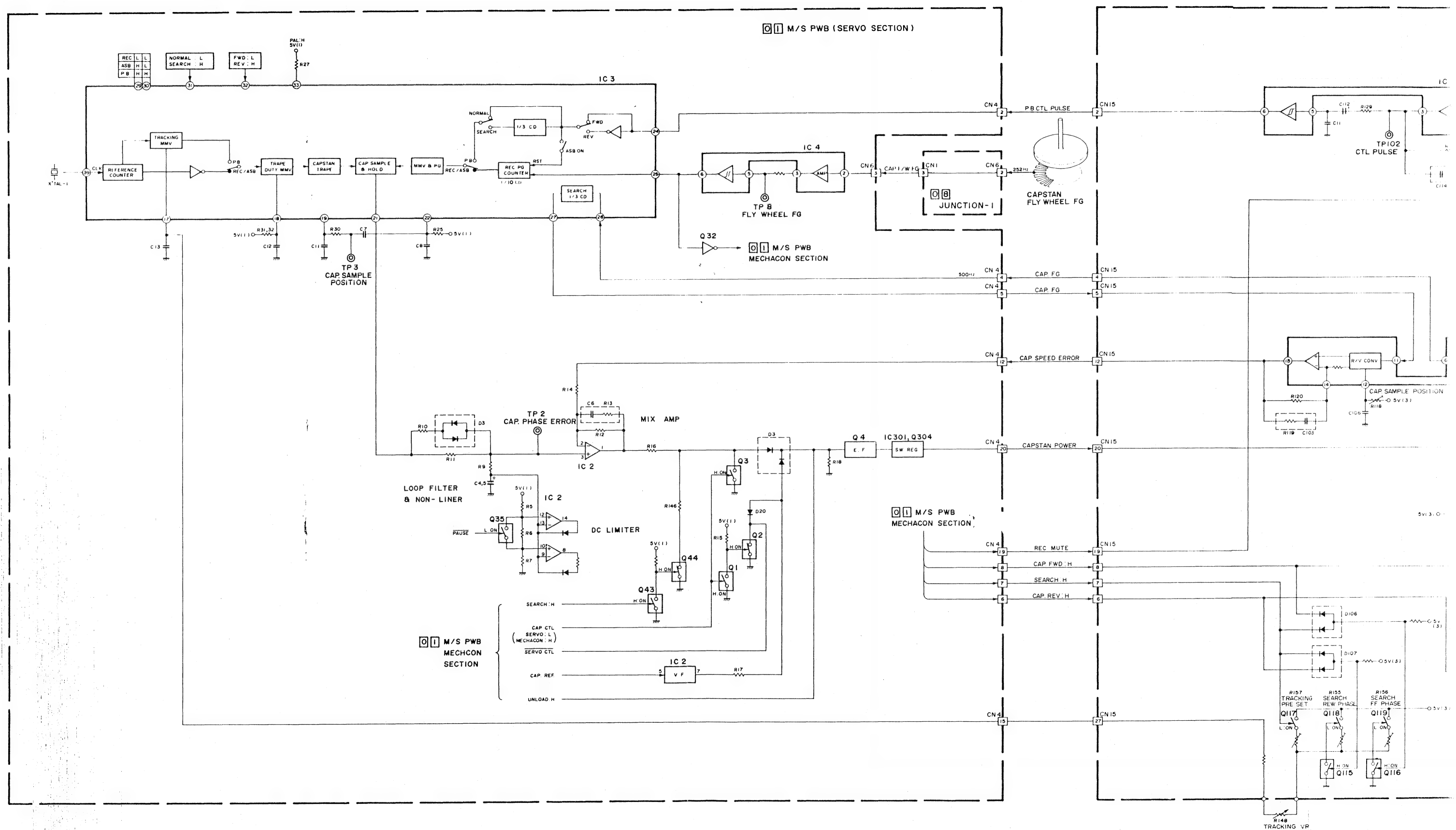


## Kopftrommelservo Blockschaltbild

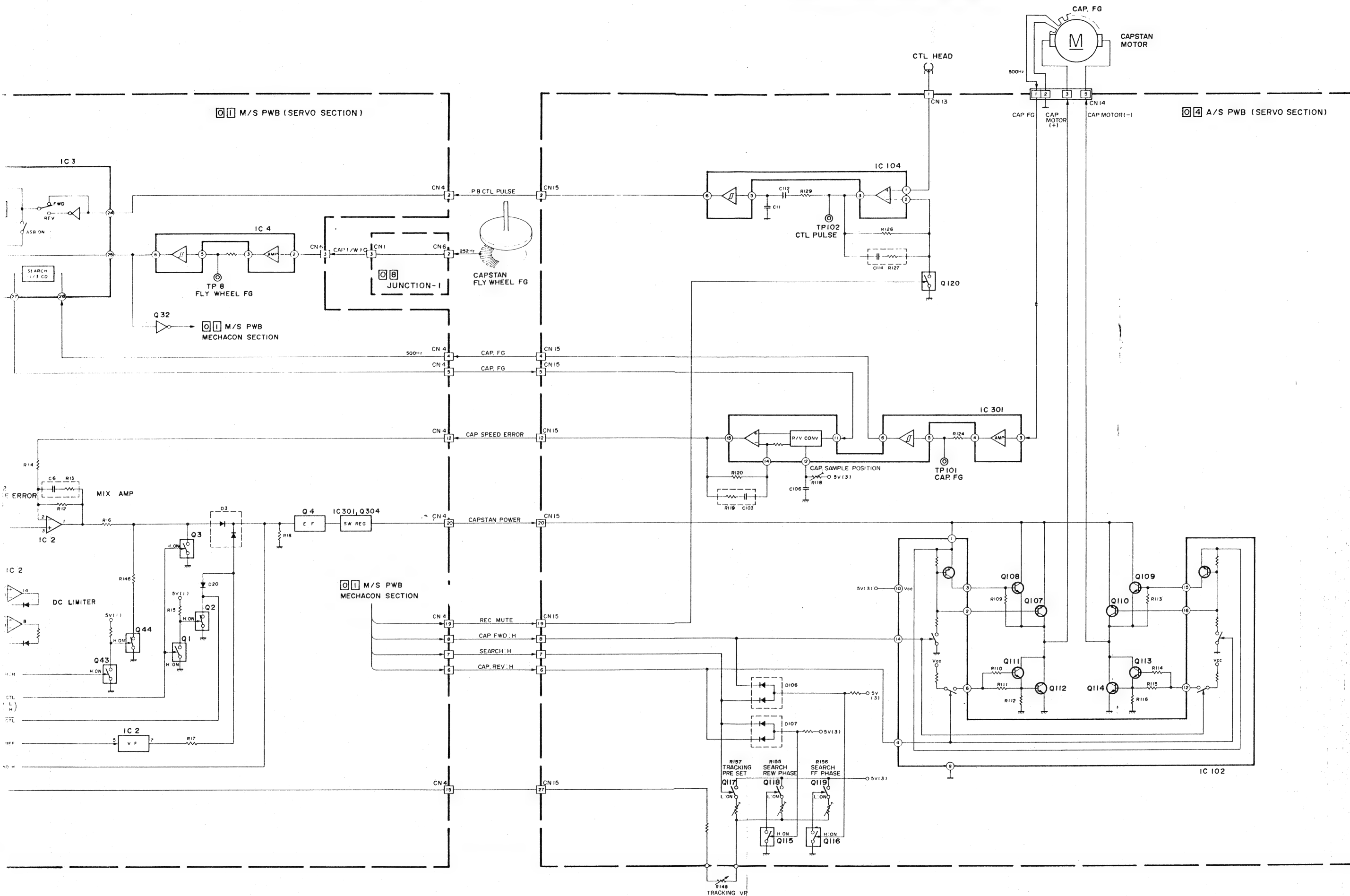
### DRUM MDA TIMING CHART



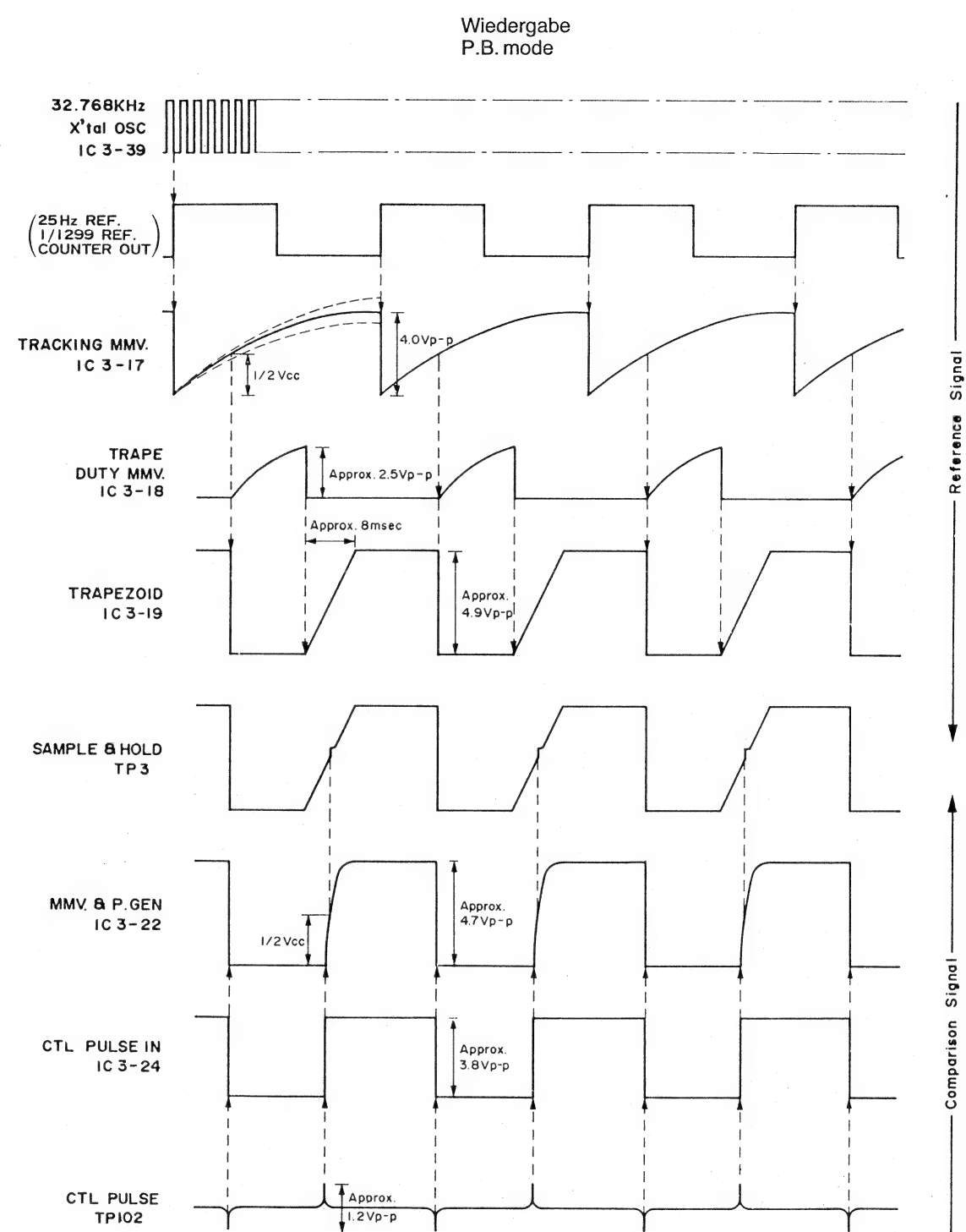
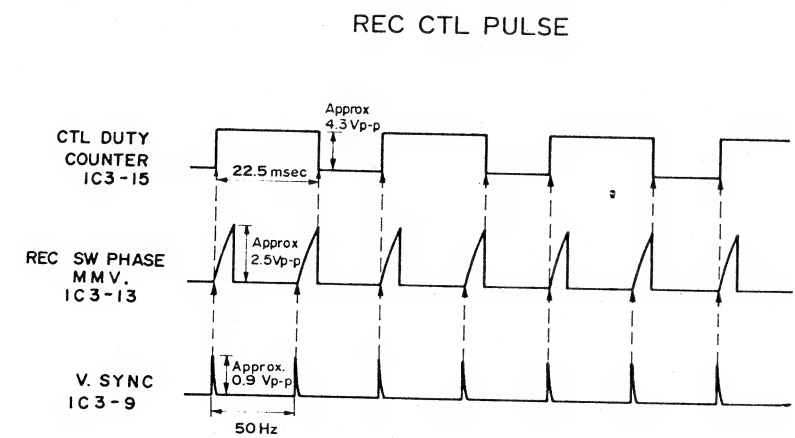
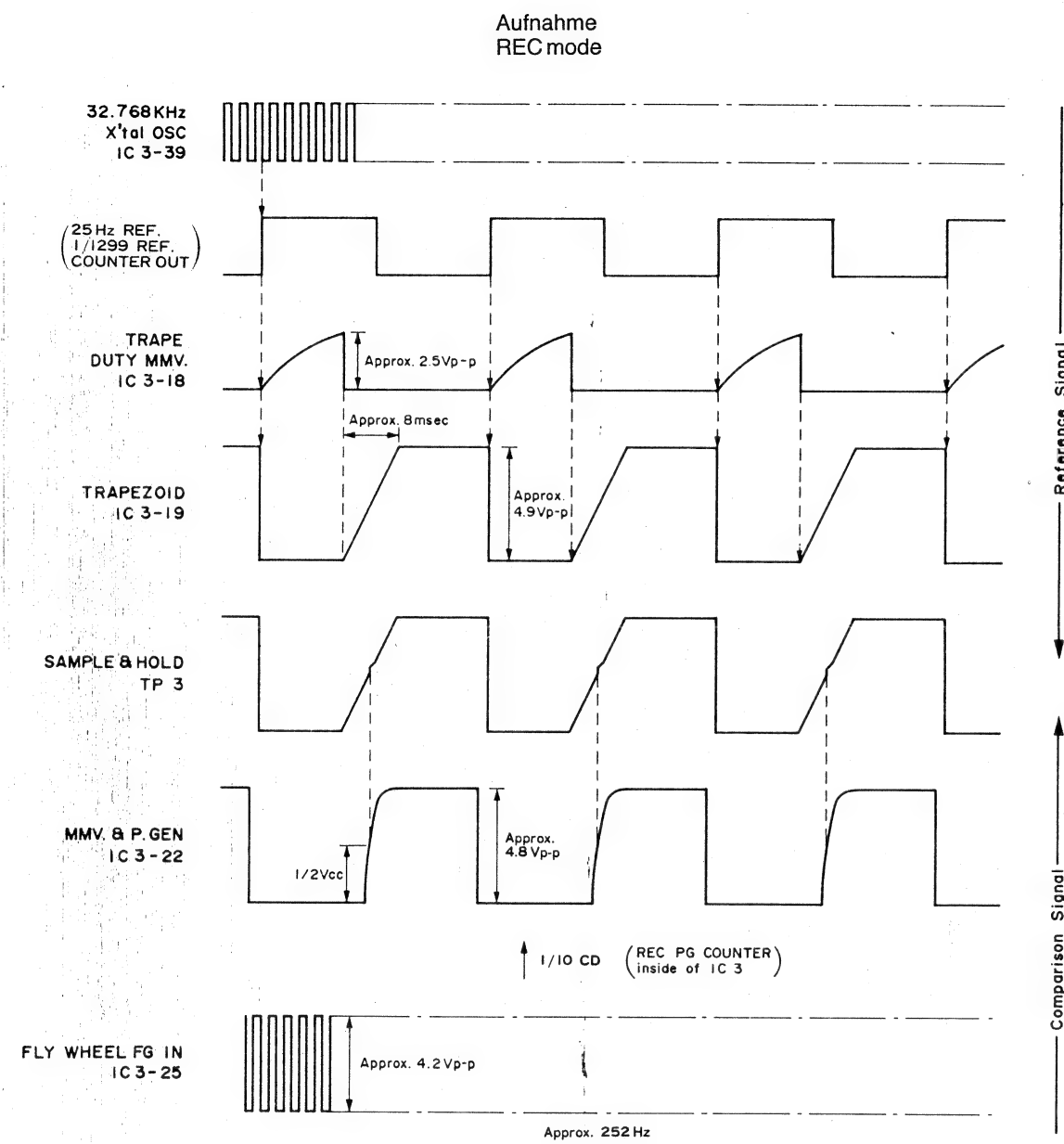




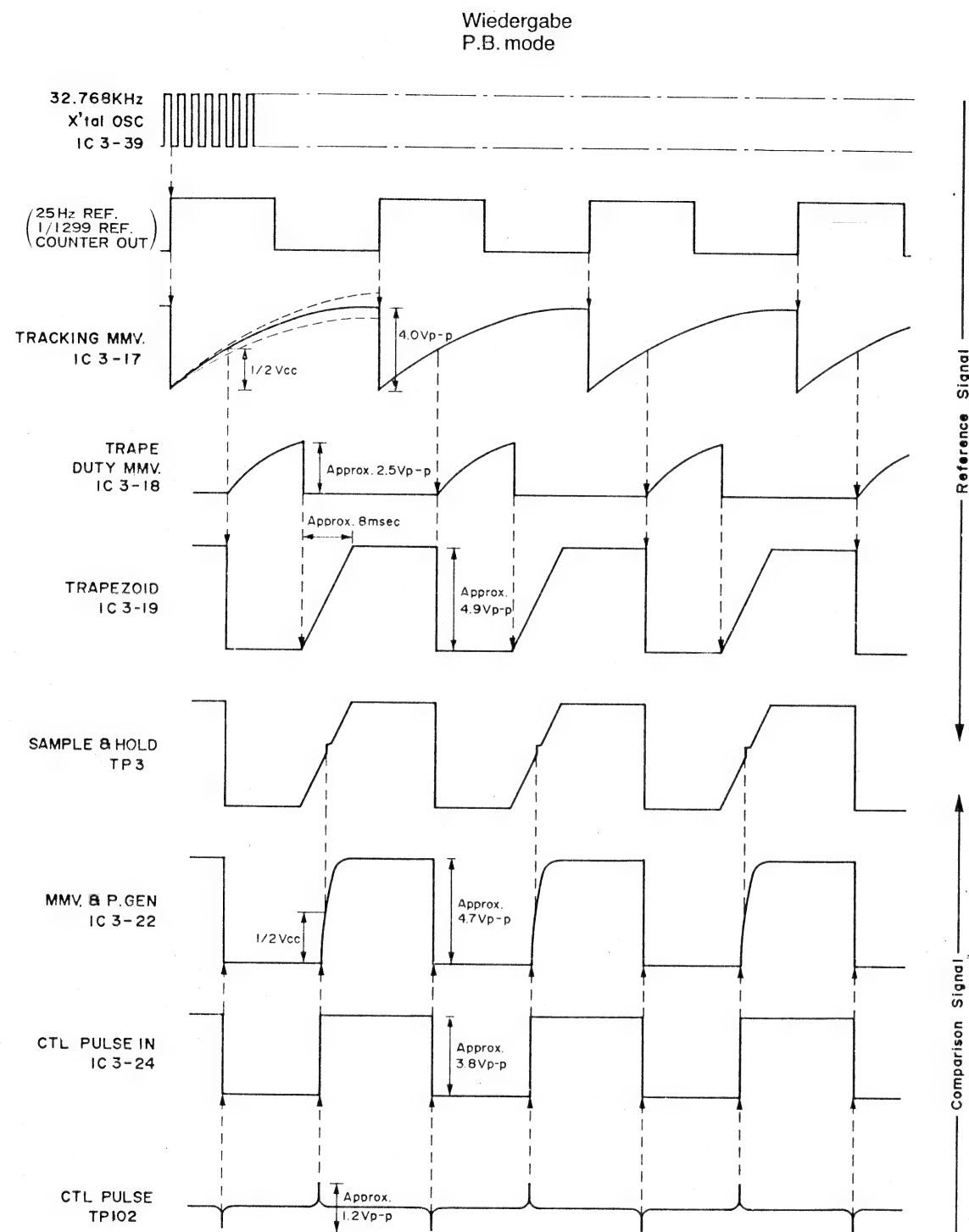
# Capstanservo Blockschaltbild Capstan servo block diagram



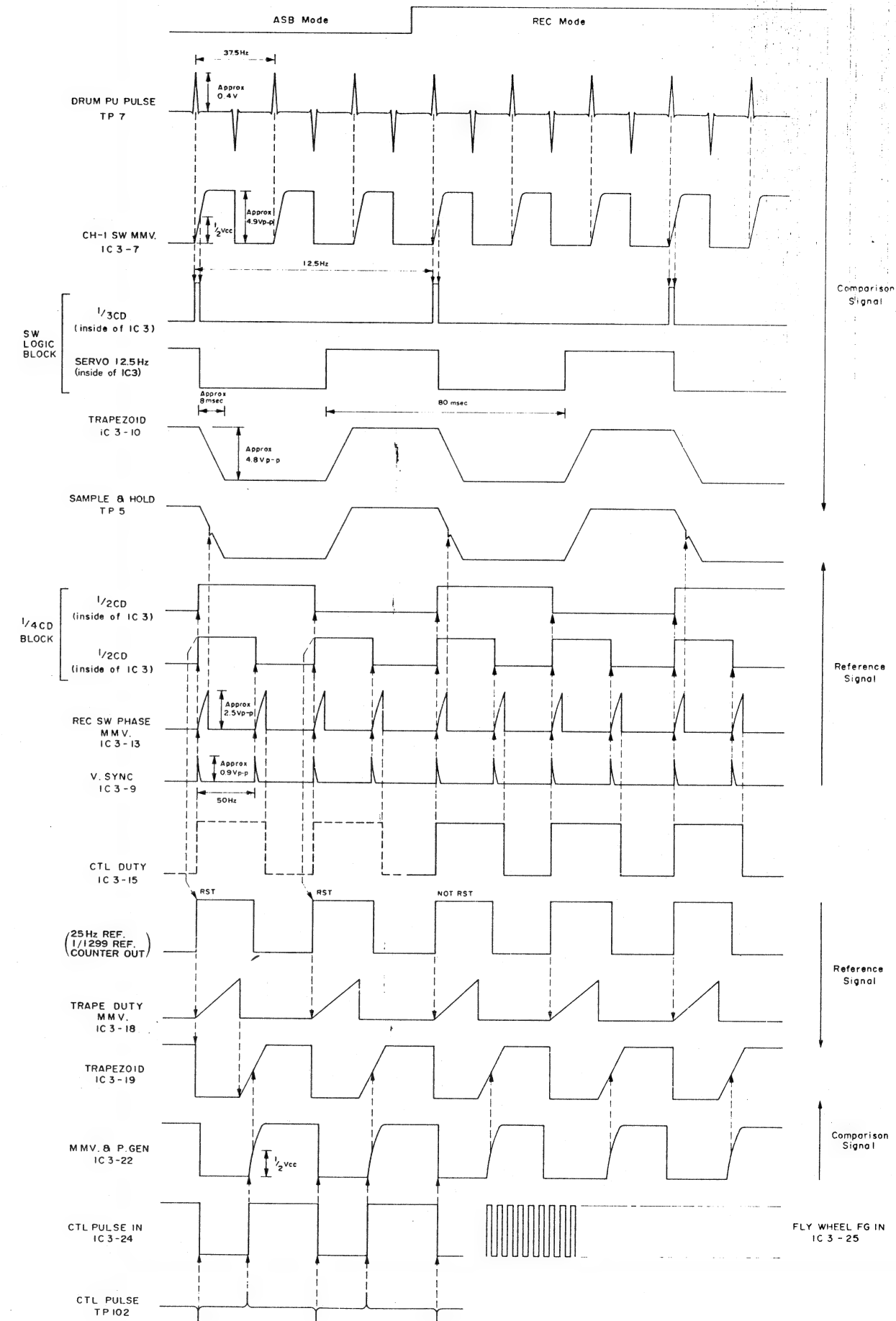
Capstanservo Impulsdiagramm  
Capstan servo timing chart



Reference Signal  
Comparison Signal

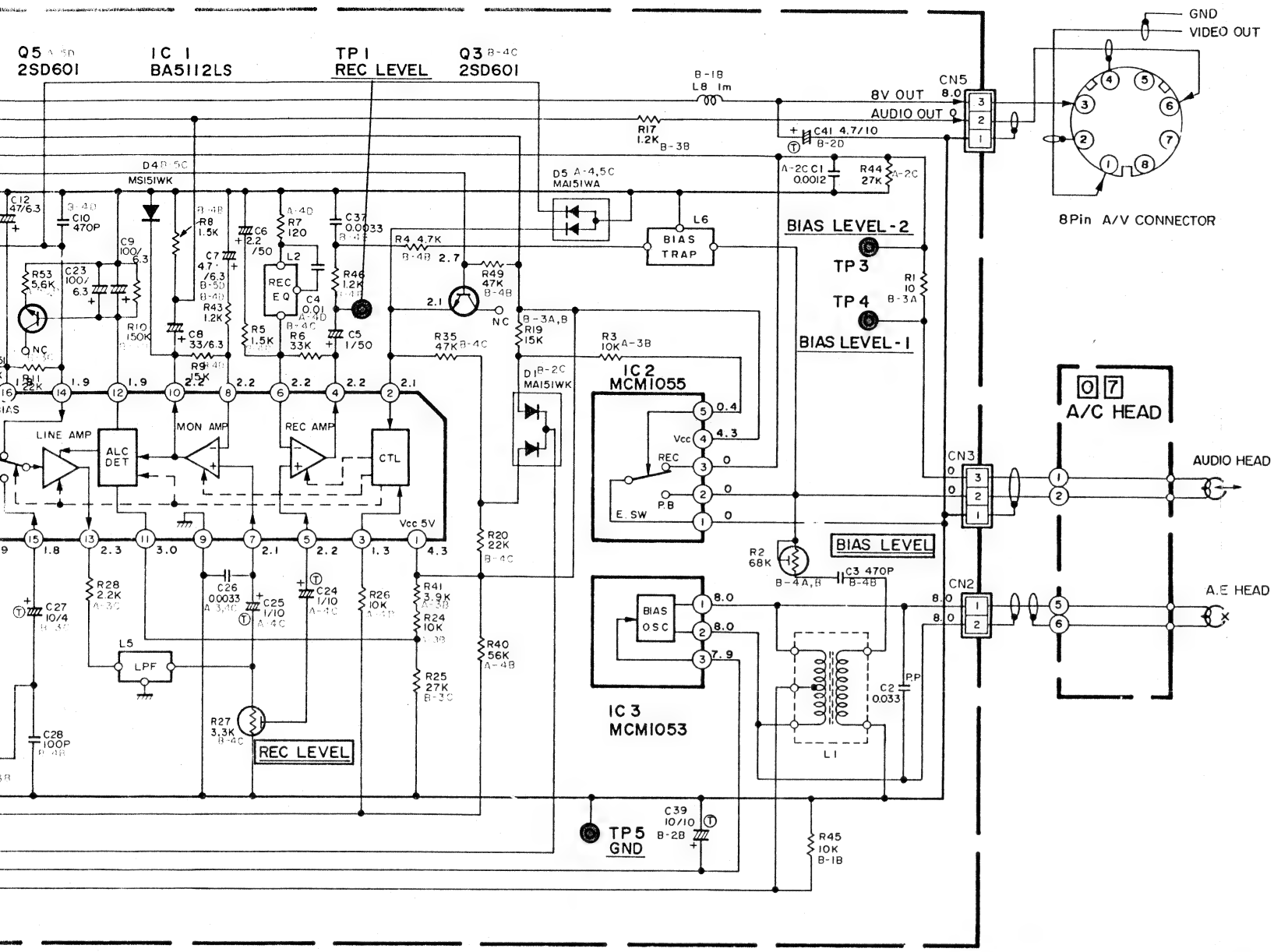


Assemble-Schnitt  
Assembly mode









# Audio-Schaltbild Audio circuit diagram

## IC1 CTL MODE

	REC	EE/REC MUTE	PB	PB MUTE
IC1 pin ② REC/PB CTL	L	L	H	H
IC1 pin ③ MUTE CTL	L	H	L	H
MIC AMP	ON	ON	ON	ON
PB EQ AMP	ON	ON	ON	ON
REC/PB SW	REC	REC	PB	PB
MON AMP	ON	ON	ON	OFF
REC AMP	ON	OFF	OFF	OFF
LINE AMP	ON	ON	OFF	OFF

## NOTES: Unless otherwise specified.

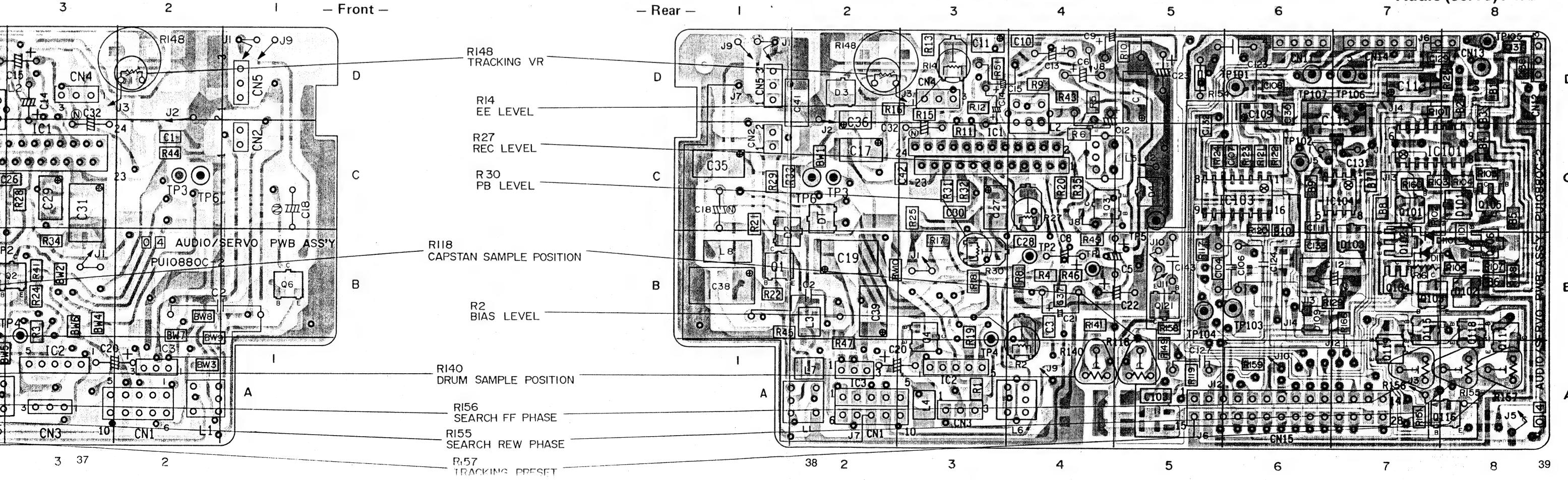
1. All resistance values are in ohms.
  2. All inductance values are in H.
  3. All capacitance values are in  $\mu F$ .
- $\text{Chip capacitor}$   $\text{Mylar capacitor}$   
 $\text{Electrolytic capacitor}$   $\text{Non-polar capacitor}$   
 $\text{Tantalum capacitor}$   $\text{Polypropylene capacitor}$
4. Shaded ( ) parts are critical for safety. Replace only with specified part numbers.
  5. The digital transistor is a transistor that includes built in resistors. Both PNP and NPN transistors are available.

6. DC voltages are measured with a digital voltmeter during stop mode without a signal.

## Hinweis:

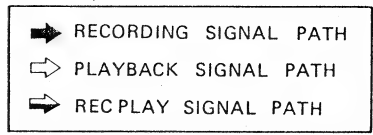
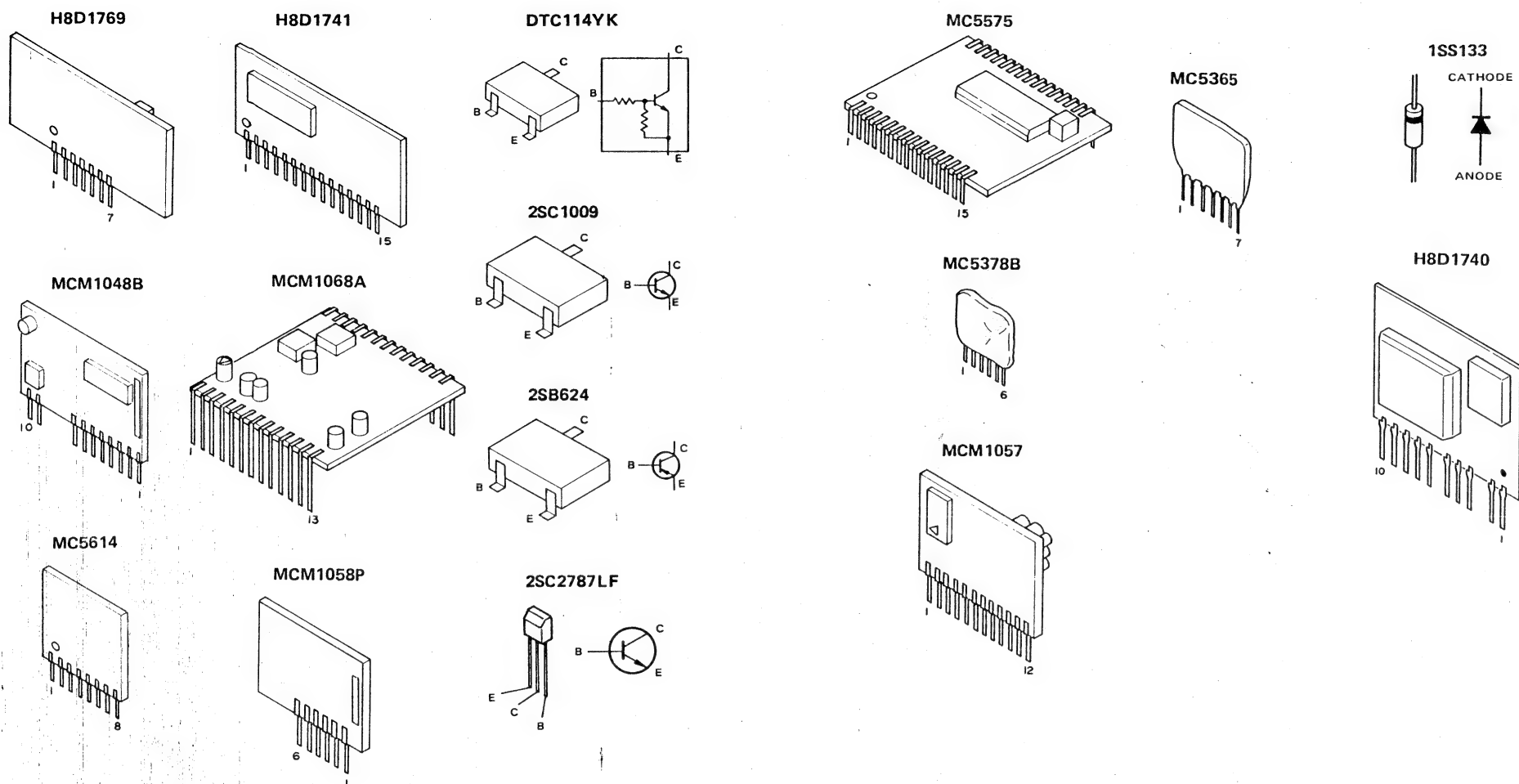
1. Alle Gleichspannungen sind mit einem Digital-Voltmeter im Stop-Betrieb ohne Signal gemessen.
2. Bauteile in den schattierten Flächen sind Sicherheits-Bauteile! Nur gegen Original-Ersatzteile austauschen!

## 04 Audio (Servo)-Platte Audio (servo) PWB





**0 2 Video-Platte (Recorder)  
Video PWB (tape recorder)**

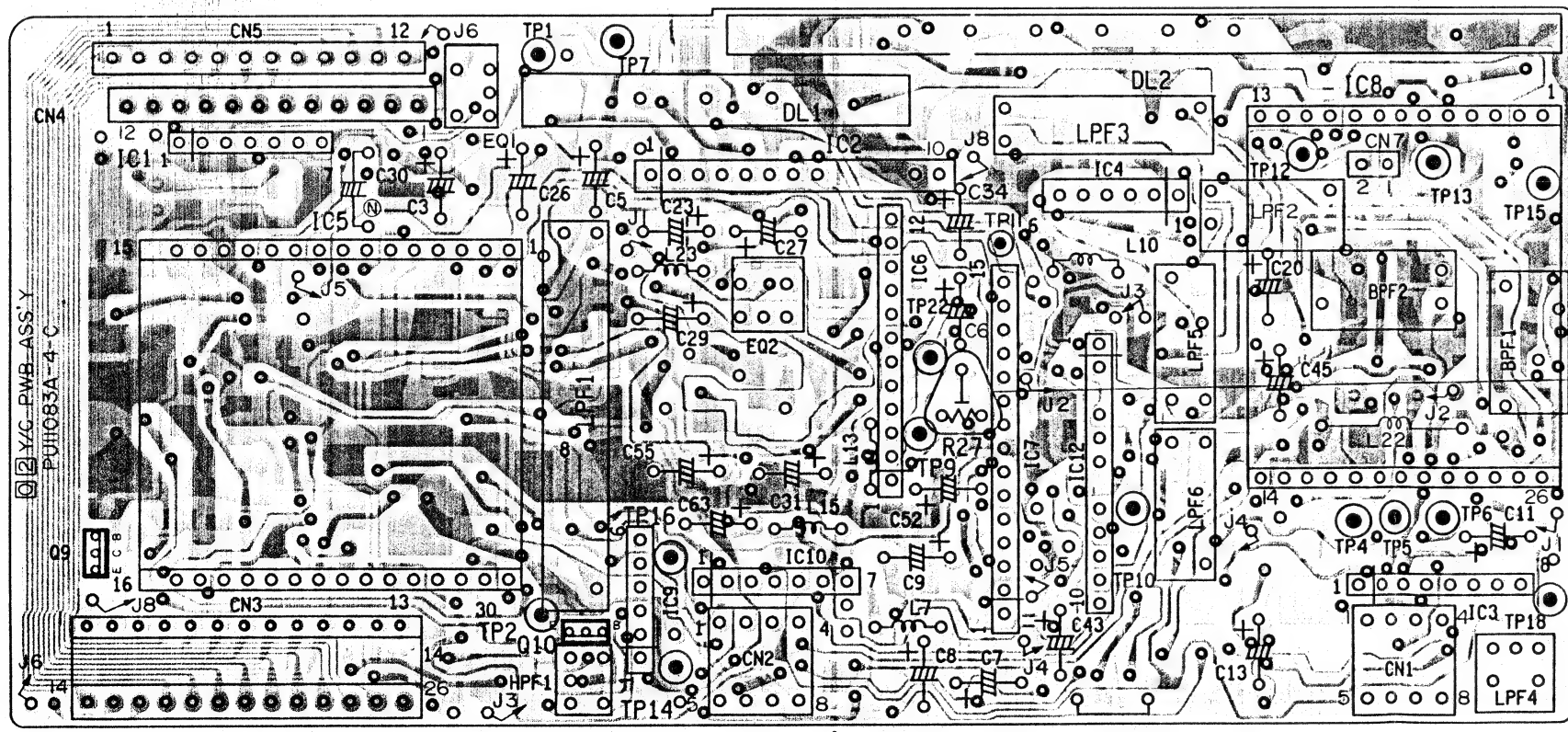


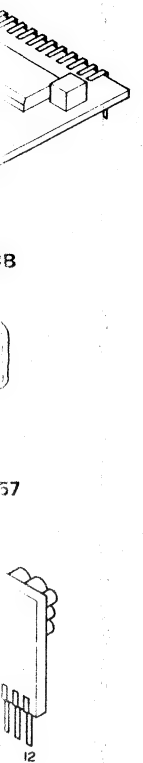
- NOTES:** Unless otherwise specified.
- All resistance values are in ohms.
  - All inductance values are in H.
  - All capacitance values are in  $\mu F$ .
- $\square$  : Chip capacitor  
 $\square$  : Non-polar capacitor  
 $\square$  : Polypropylene capacitor  
 $\square$  : Electrolytic capacitor  
 $\square$  : Tantalum capacitor  
 $\square$  : Mylar capacitor
- Shaded ( ) parts are critical for safety. Replace only with specified part numbers.
  - The digital transistor that includes built in resistors. Both PNP and NPN transistors are available.
  - DC voltages are measured with a digital voltmeter during recording mode.
  - Where voltage differs between recording and play-back, the voltage during play-back is shown in parentheses.
  - Wave forms  
 Recording: Measured by using "Y/C SEPARATOR" with color bar signal input.  
 Play-back: Measured during play-back of color bar segment of Alignment Tape.

- Hinweis:**
- Alle Gleichspannungen sind mit einem Digital-Voltmeter im Aufnahmebetrieb gemessen.
  - Ergeben sich im Wiedergabe-Betrieb andere Spannungen, so sind diese in Klammern angegeben.
  - Bauteile in den schattierten Flächen sind Sicherheitsbauteile! Nur gegen Original-Ersatzteile wechseln!

— Front —

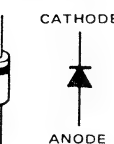
— Rear —



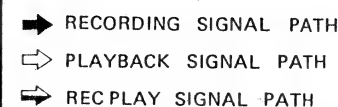
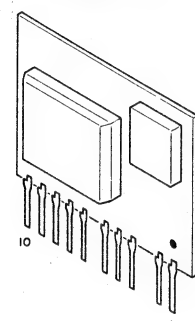


MC5365

1SS133

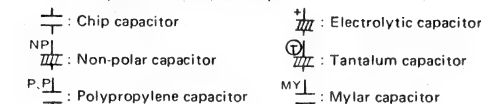


H8D1740



NOTES: Unless otherwise specified.

1. All resistance values are in ohms.
2. All inductance values are in H.
3. All capacitance values are in  $\mu$ F.



4. Shaded ( ) parts are critical for safety. Replace only with specified part numbers.
5. The digital transistor that includes built in resistors. Both PNP and NPN transistors are available.

6. DC voltages are measured with a digital voltmeter during recording mode.
7. Where voltage differs between recording and play-back, the voltage during play-back is shown in parentheses.
8. Wave forms  
Recording: Measured by using "Y/C SEPARATOR" with color bar signal input.  
Play-back: Measured during play-back of color bar segment of Alignment Tape.

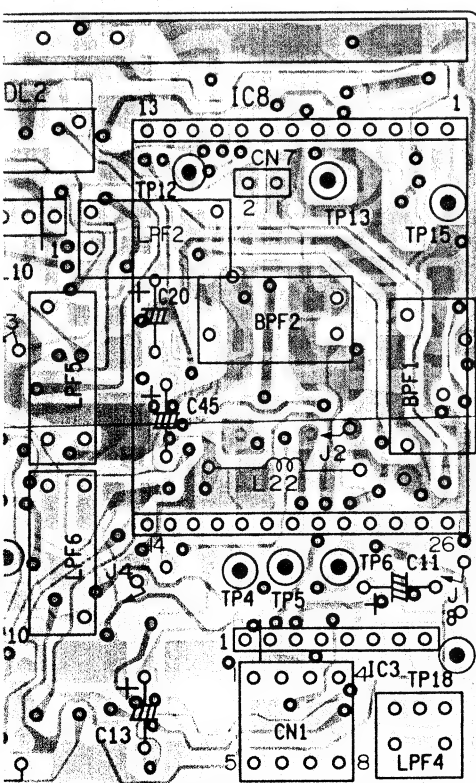
Hinweis:

1. Alle Gleichspannungen sind mit einem Digital-Voltmeter im Aufnahmebetrieb gemessen.
2. Ergeben sich im Wiedergabe-Betrieb andere Spannungen, so sind diese in Klammern angegeben.
3. Bauteile in den schattierten Flächen sind Sicherheitsbauteile! Nur gegen Original-Ersatzteile wechseln!

 CN6 pin ② Y IN 1 Vp-p REC	 TP23 CHROMA IN BARST 0.2 Vp-p REC	 TP1 PB FM 0.28 Vp-p PB	 TP2 EMPHASIS 0.64 Vp-p PB	 TP18 VIDEO OUT 2 Vp-p PB	 TP4 VCO 0.5 Vp-p PB
 TP5 VCO OUT 0.9 Vp-p	 TP6 PB COLOR 0.2 Vp-p PB	 TP22 Y AMP IN 0.24 Vp-p REC 0.48 Vp-p PB	 TP9 DYAC 0.28 Vp-p REC	 IC7 pin ⑭ 2nd LMT IN 0.5 Vp-p PB	 TP12 0.55 Vp-p PB/REC
 TP14 REC COLOR 75 mVp-p REC	 TP15 AFC ERROR 2.6 V DC PB	 IC5 pin ⑭ FM MOD OUT 0.8 Vp-p REC	 TP16 REC FM 3.6 Vp-p REC	 IC5 pin ⑥ PB AMP-1 IN 0.36 Vp-p PB	 CN 1 pin ⑧ B/W OUT 2 Vp-p PB
 CN1 pin ① FF 25 4.0 Vp-p	 CN 1 pin ② FF 12.5 3.8 Vp-p	 CN 1 pin ⑥ SW PULSE 4 7.3 Vp-p PB	 CN1 pin ⑥ SW PULSE 4 7.3 Vp-p REC	 CN1 pin ③ SW PULSE 2 7.3 Vp-p PB	 CN1 pin ③ SW PULSE 2 7.3 Vp-p REC
 CN1 pin ④ SW PULSE 1 7.3 Vp-p PB	 CN1 pin ④ SW PULSE 1 7.3 Vp-p REC	 CN1 pin ⑦ SW PULSE 3 7.3 Vp-p PB	 CN1 pin ⑦ SW PULSE 3 7.3 Vp-p REC	 TP10 NOISE CANCEL PB	

— Front —

— Rear —



R20  
PB COLOR

R41  
AFC

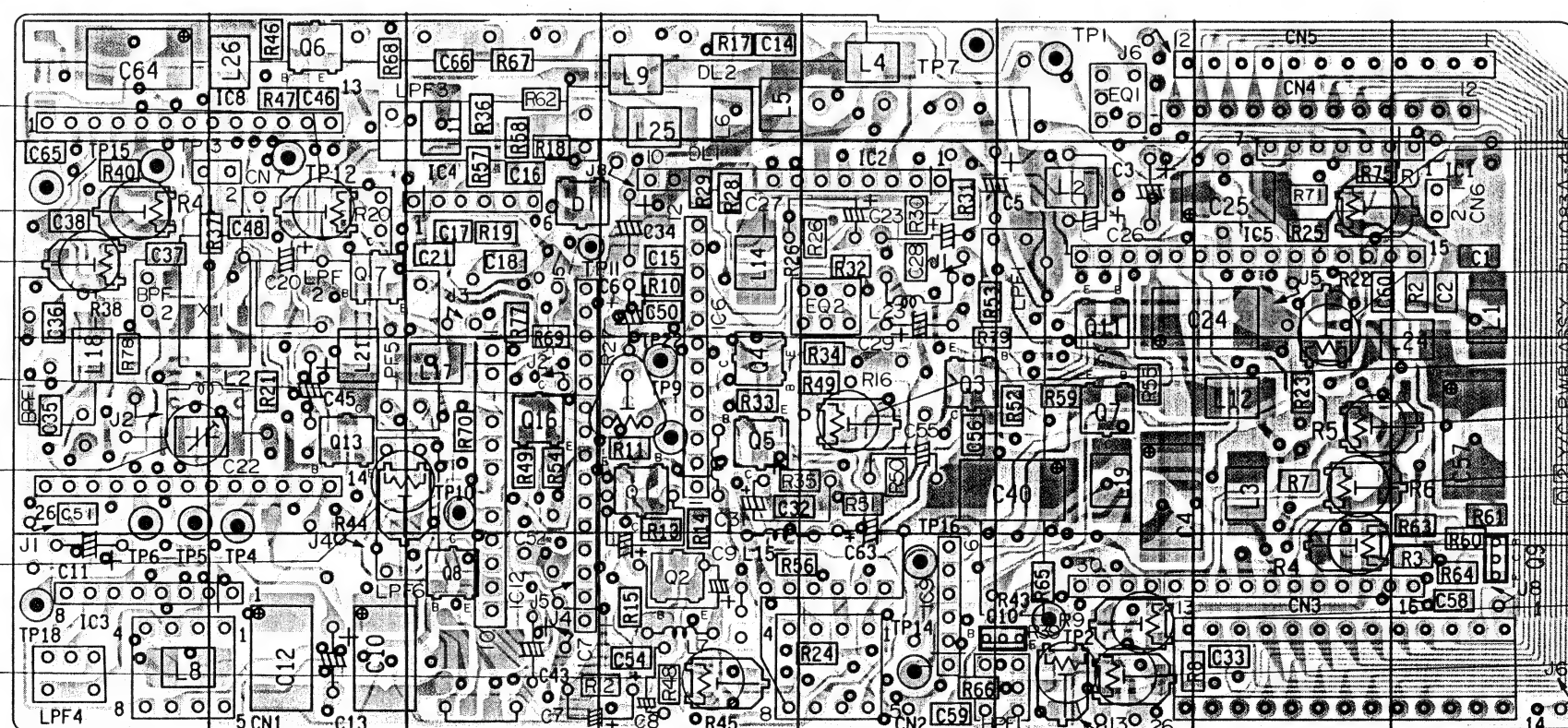
R38  
PB BURST

R27  
DAC

C22  
VCO ADJ

R44  
NOISE CANCEL

R45  
PB Y LEVEL



R1  
RF EQ

R22  
E-E LEVEL

R16  
E-E COLOR LEVEL

R5  
CARRIER

R6  
DEV

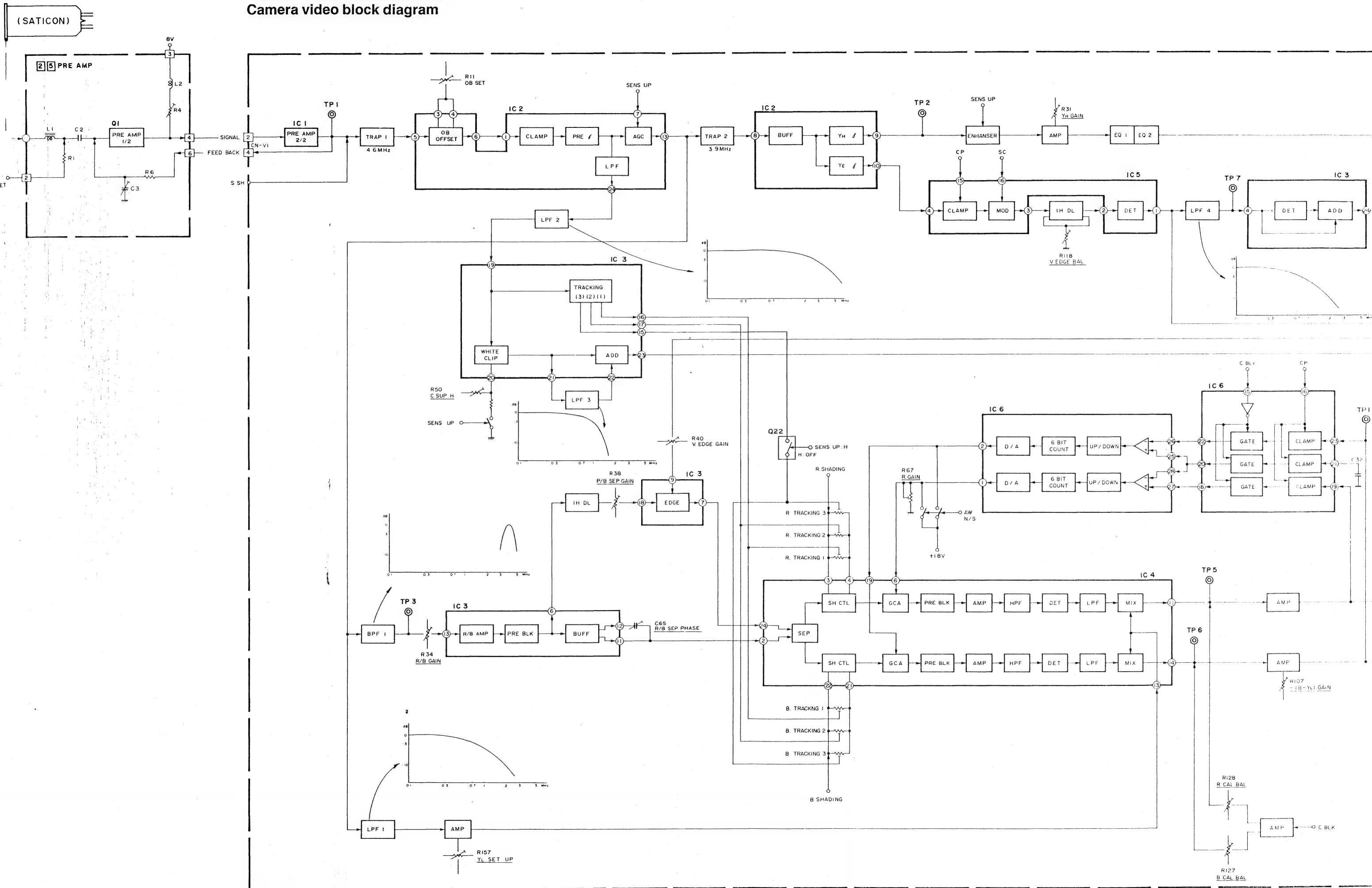
R4  
WHITE CLIP

R9  
DARK CLIP

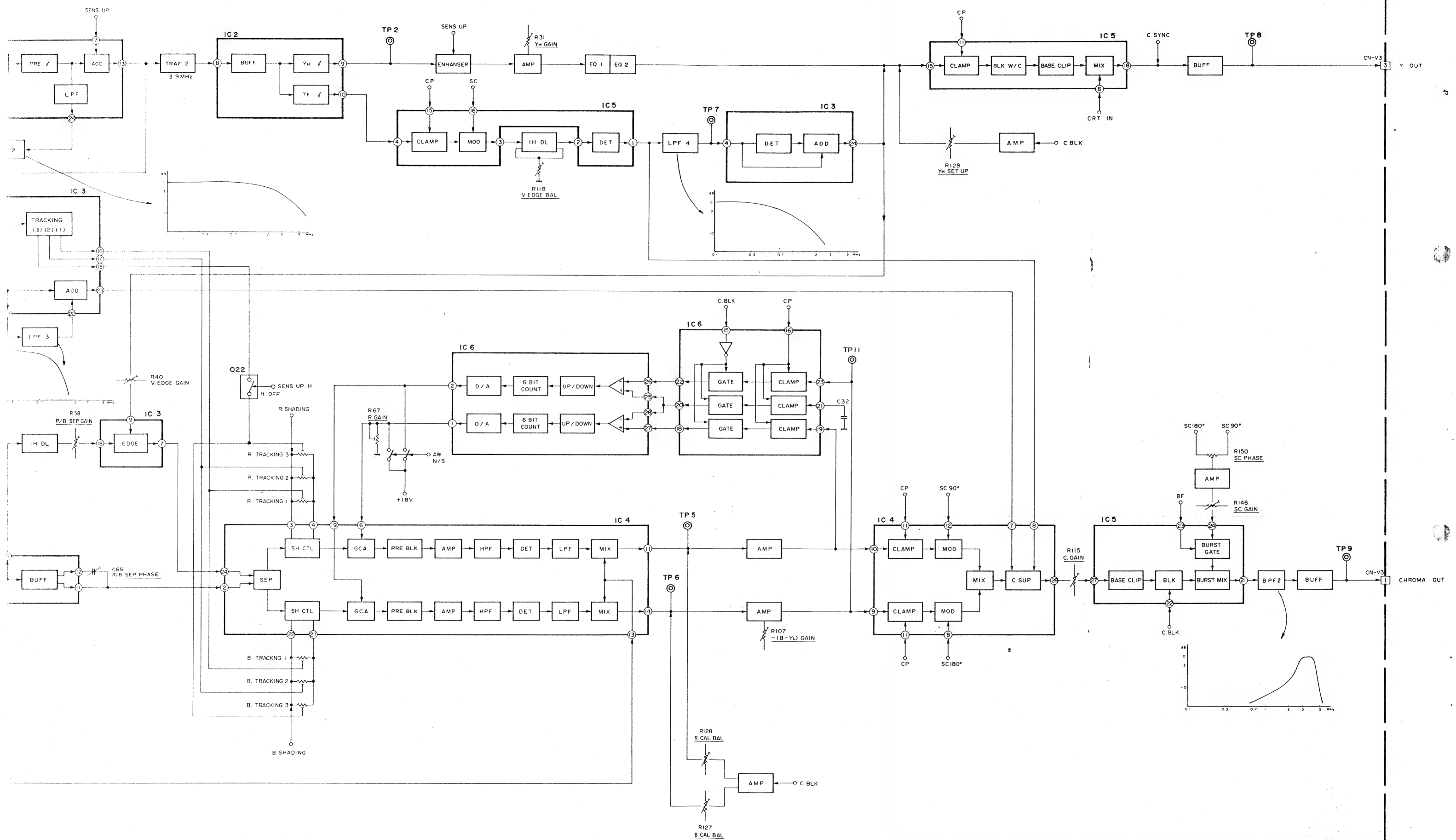
R39  
REC COLOR LEVEL

R43  
REC FM

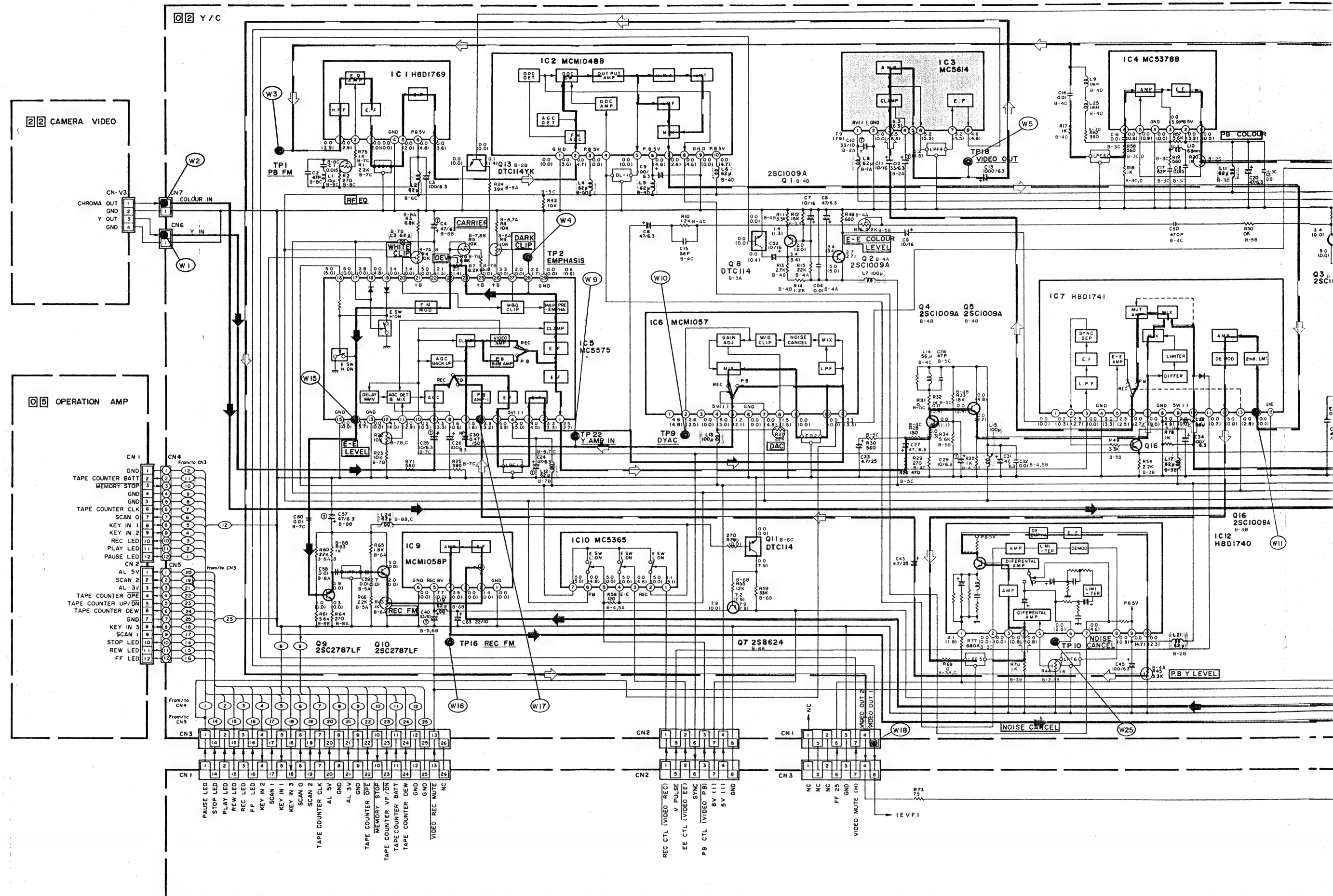
# Camera Video Blockschaltbild Camera video block diagram

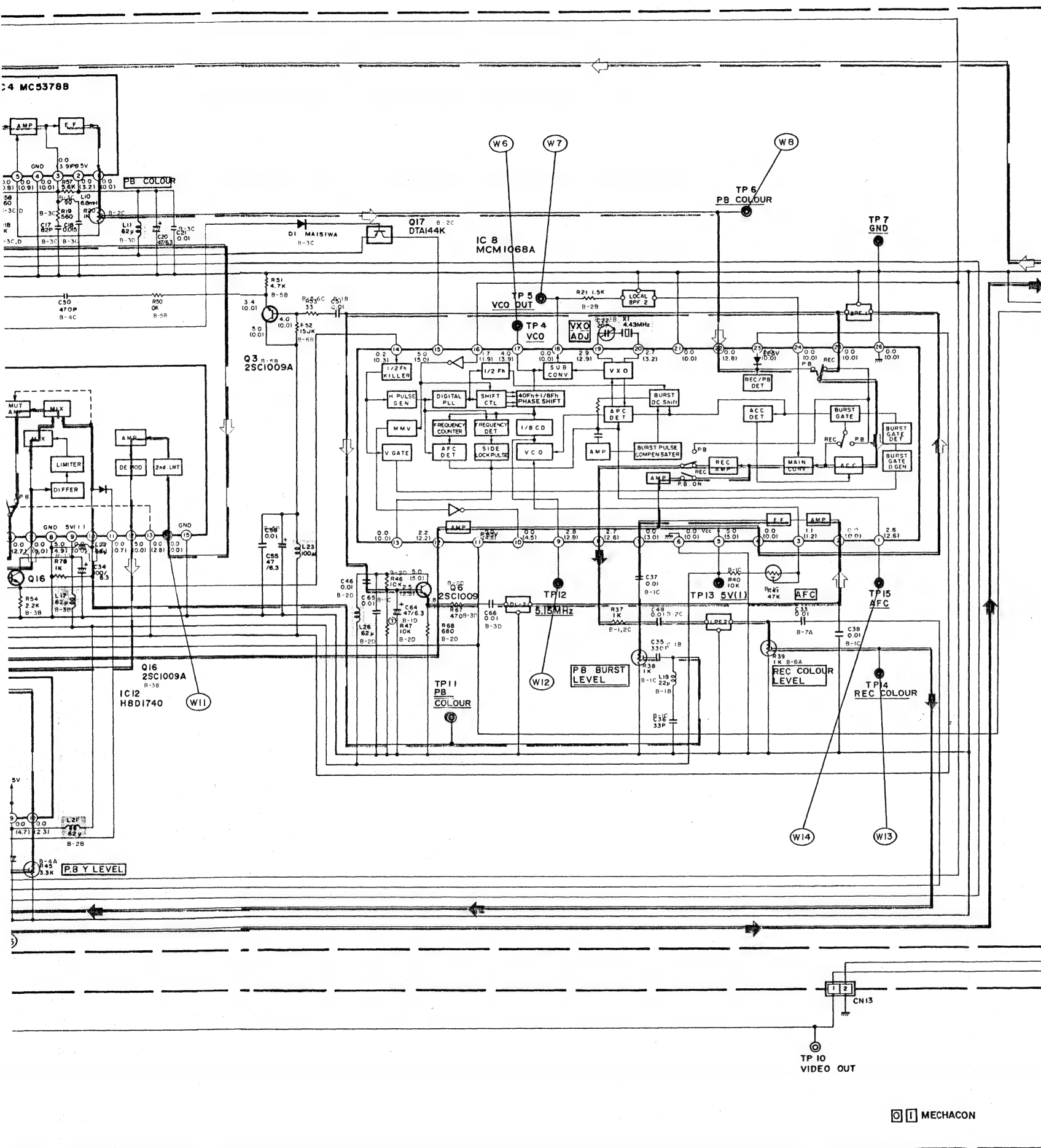






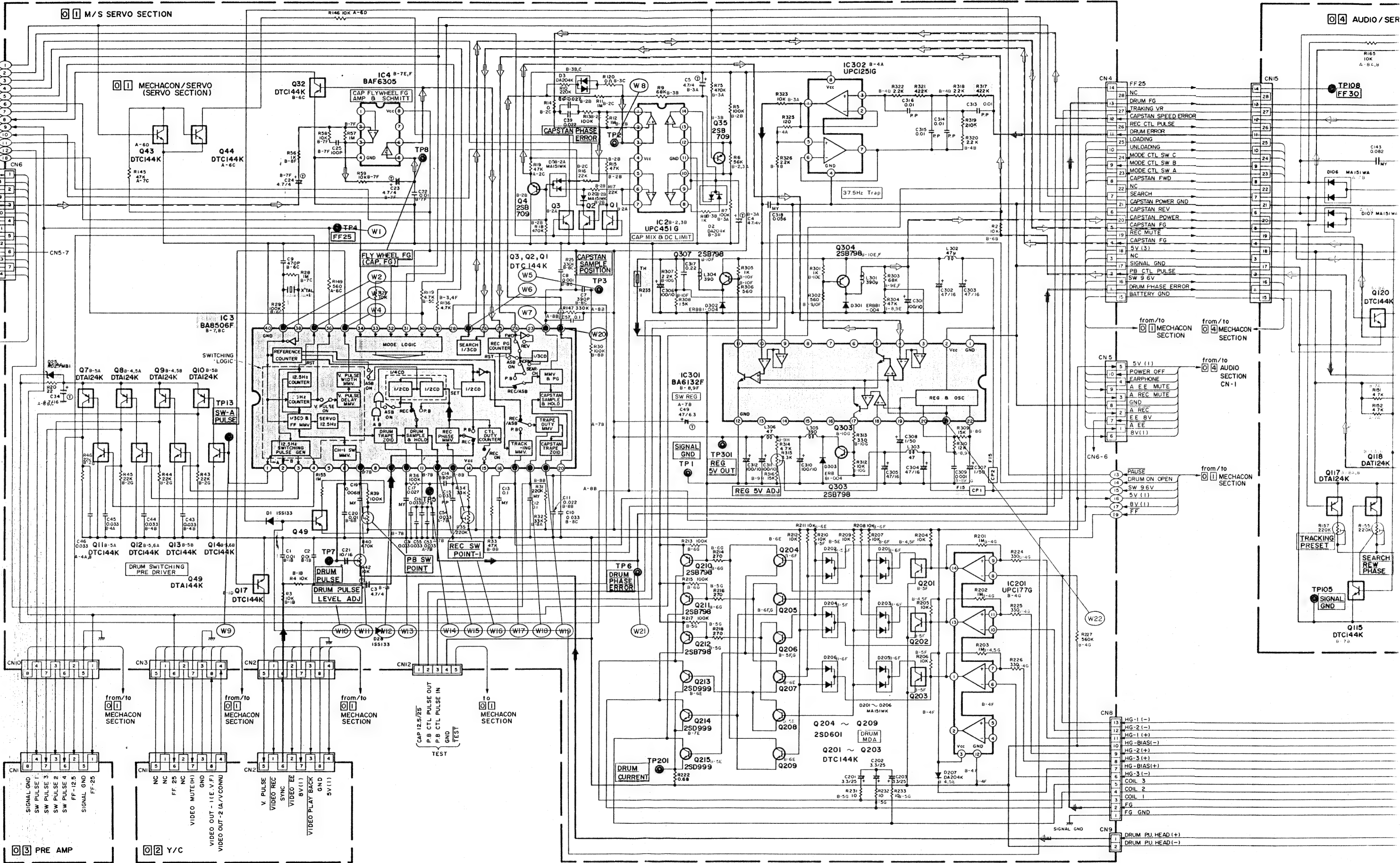
Video-Schaltbild (Recorder)  
Video circuit diagram (tape recorder)



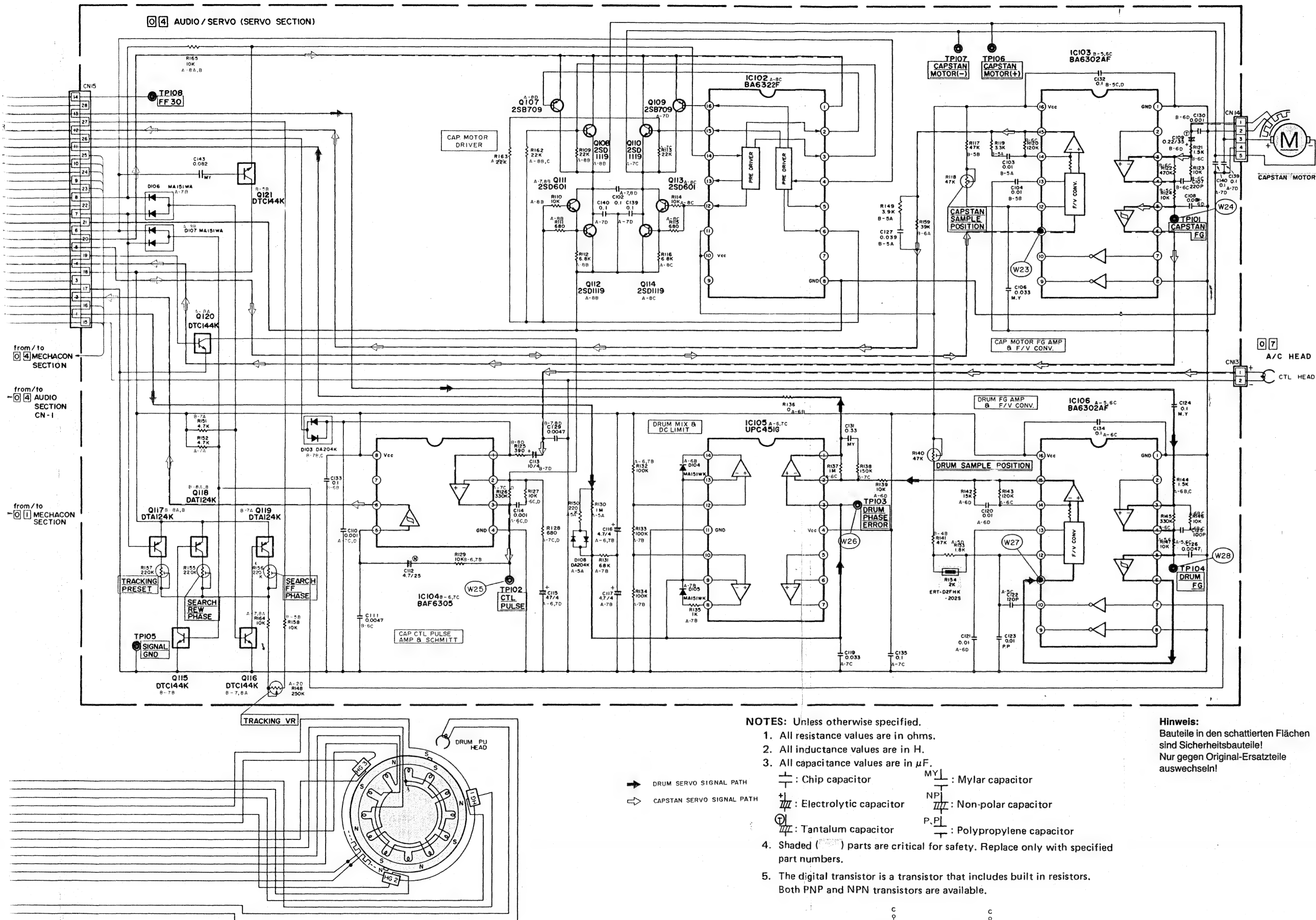


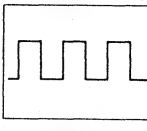
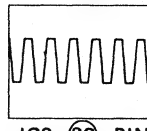
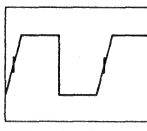
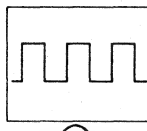
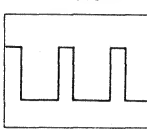
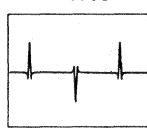
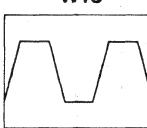
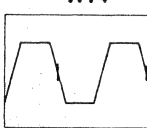
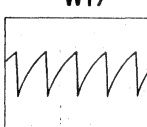
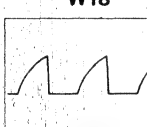
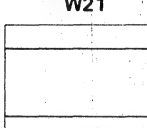
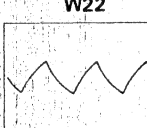
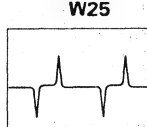
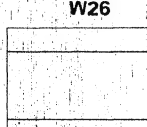


## Servo-Regelung Schaltbild Servo circuit diagram



### Servo-Regelung Schaltbild Servo circuit diagram



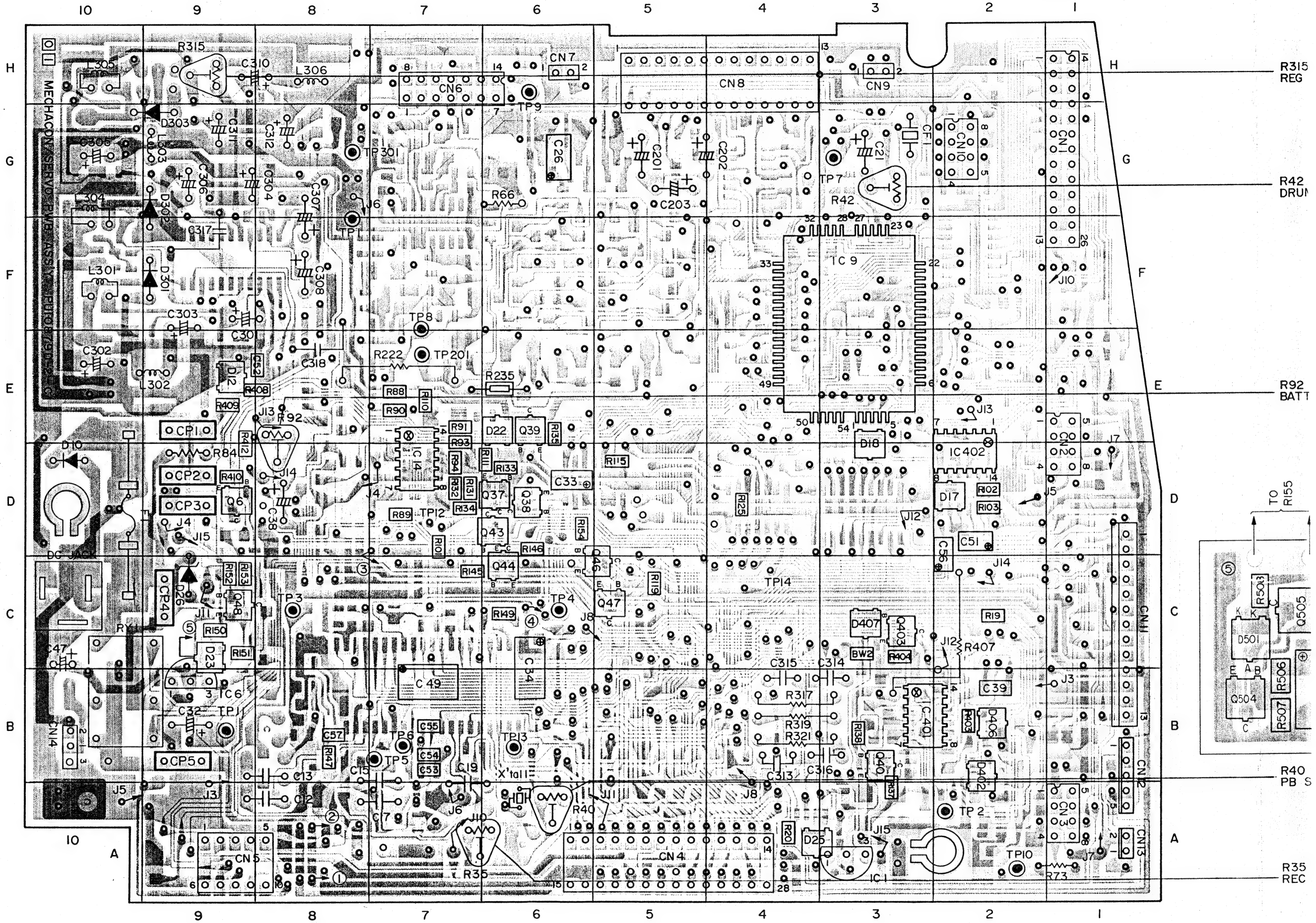
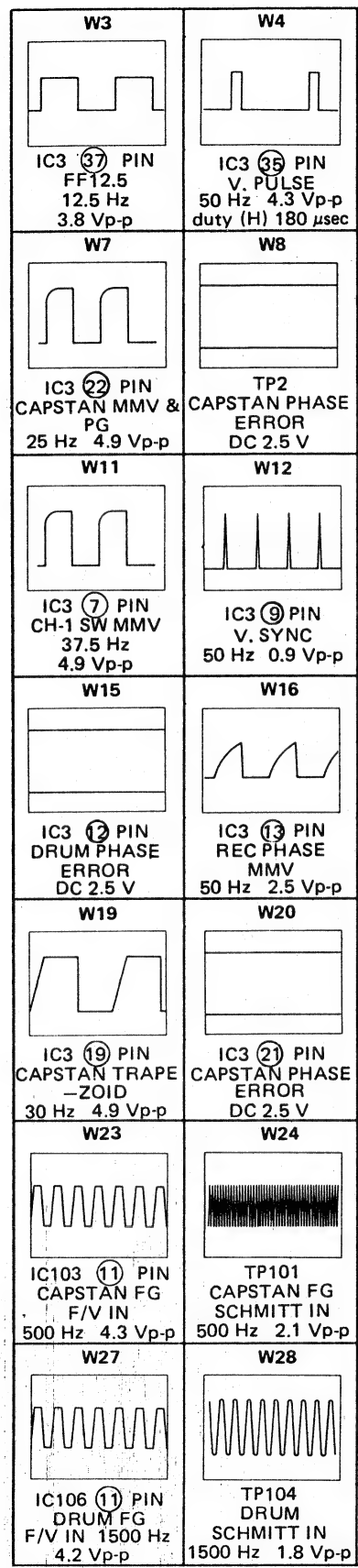
<p><b>W1</b></p>  <p>TP4 FF25 25Hz 3.8 Vp-p</p>	<p><b>W2</b></p>  <p>IC3 ③9 PIN CRYSTAL 1 32.768 kHz 3.3 Vp-p</p>
<p><b>W5</b></p>  <p>TP3 CAPSTAN SAMPLE POSITION 25 Hz 4.9 Vp-p</p>	<p><b>W6</b></p>  <p>IC3 ②7 PIN CAPSTAN FG 500 Hz 4.3 Vp-p</p>
<p><b>W9</b></p>  <p>TP13 SW-A PULSE 12.5 Hz 4.4 Vp-p</p>	<p><b>W10</b></p>  <p>TP7 DRUM PULSE 37.5 Hz 0.9 Vp-p</p>
<p><b>W13</b></p>  <p>IC3-⑩ PIN DRUM TRAPE 12.5 Hz 5.0 Vp-p</p>	<p><b>W14</b></p>  <p>TP5 DRUM SAMPLE POSITION 12.5 Hz 5.0 Vp-p</p>
<p><b>W17</b></p>  <p>IC3 17 PIN TRACKING MMV 25 Hz 3.9 Vp-p</p>	<p><b>W18</b></p>  <p>IC3 ①8 PIN TRAP DUTY MMV 25 Hz 2.5 Vp-p</p>
<p><b>W21</b></p>  <p>TP6 DRUM PHASE ERROR DC 2.5 V</p>	<p><b>W22</b></p>  <p>IC301 ②1 PIN SW REG OSC 40 kHz 2.0 Vp-p</p>
<p><b>W25</b></p>  <p>TP102 CTL PULSE 25 Hz 1.2 Vp-p</p>	<p><b>W26</b></p>  <p>TP103 DRUM PHASE ERROR DC 2.5 V</p>

**Hinweis:**  
Bauteile in den schattierten Flächen  
sind Sicherheitsbauteile!  
Nur gegen Original-Ersatzteile  
auswechseln!



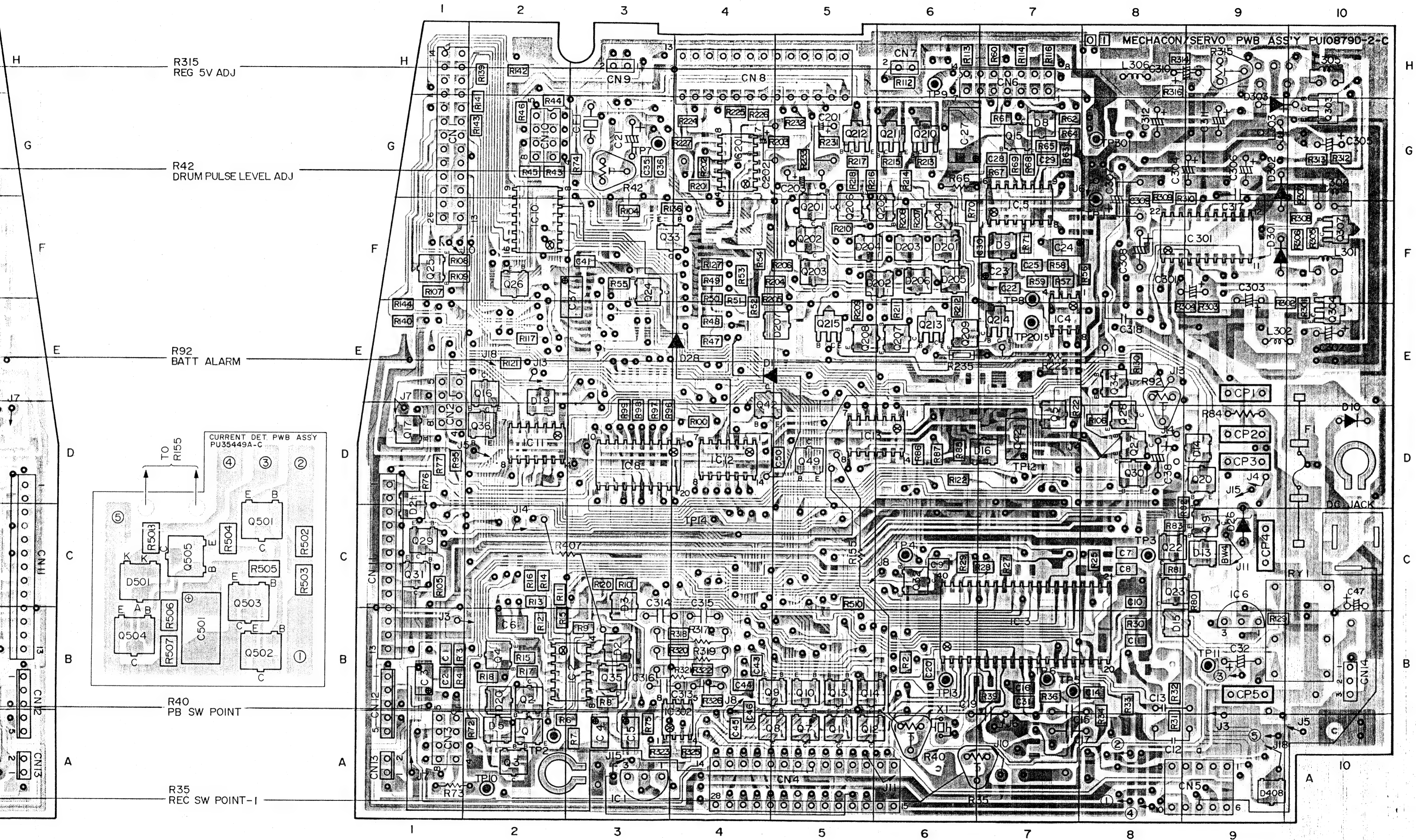
## 01 Platte Servo-Regelung/Mechaniksteuerung Mechacon/Servo PWB

— Front —



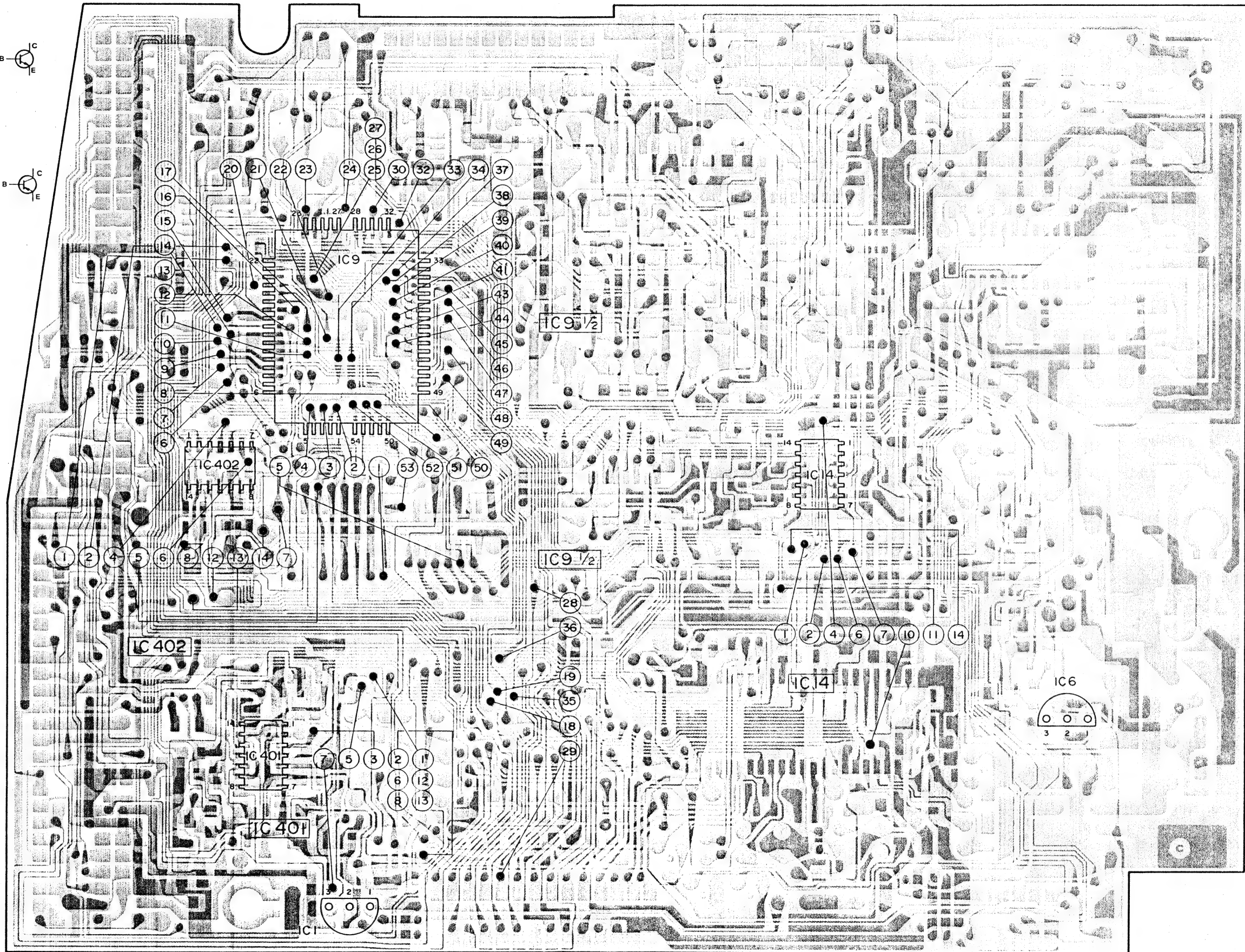
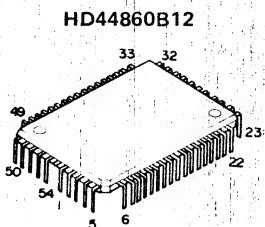
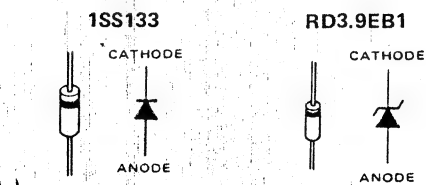
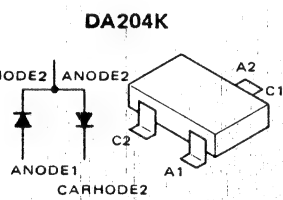
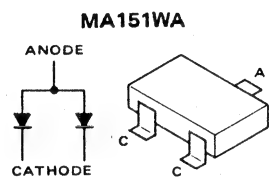
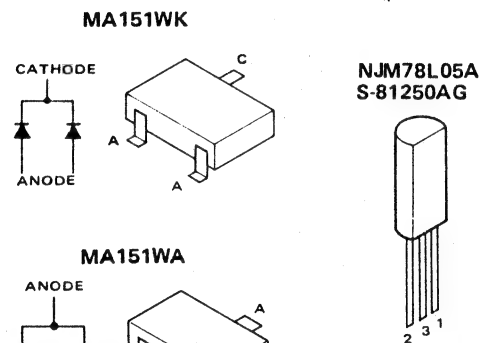
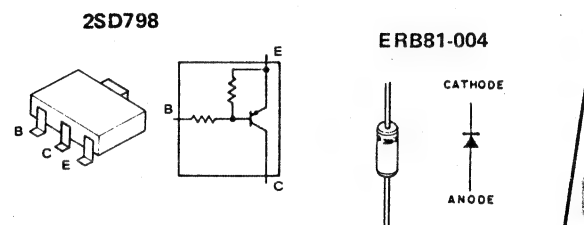
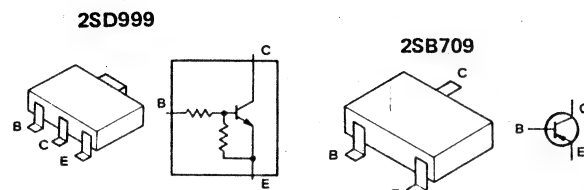
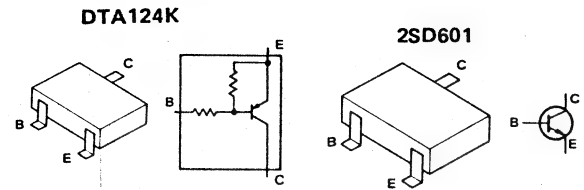
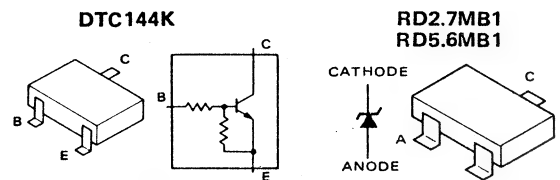


— Rear —





0 1 Platte Servo-Regelung / Mechaniksteuerung (IC-Anschlüsse)  
Mechacon / Servo PWB (IC-Pin location)



MODE	STOP	PLAY
IC No. ①	3.7	0.8
②	1.0	2.5
③	3.2	2.7
④	5.0	5.0
⑤	0	1.3
⑥	0	1.3
⑦	0	1.3
⑧	0	0
⑨	3.1	2.4
⑩	1.9	1.9
⑪	0	0
⑫	3.0	3.0
⑬	3.1	2.4
⑭	2.4	3.8
IC4 ①	1.4	—
②	1.4	—
③	1.4	—
④	0	—
⑤	2.0	—
⑥	4.2	—
⑦	0	—
⑧	5.0	—
IC201 ①	0	—
②	5.0	—
③	5.0	—
④	0.4	—
⑤	4.9	—
⑥	3.6	—
⑦	3.5	—
⑧	2.2	—
⑨	2.2	—
⑩	0.8	—
⑪	0.8	—
⑫	0	—
⑬	0	—
⑭	4.2	—
IC301 ①	0	—
②	10.1	—
③	0.7	—
④	0.8	—
⑤	10.2	—
⑥	0	—
⑦	0	—
⑧	0	—
⑨	0	—
⑩	0	—
⑪	10.2	—
⑫	0	—
⑬	0	—
⑭	0	—
⑮	0	—
⑯	0	—
⑰	5.3	—
⑱	3.4	—
⑲	3.5	—
⑳	2.9	—
㉑	3.0	—
㉒	6.9	—

Spannungstabellen · DC voltage tables

Servoregelung/Mechaniksteuerung Platte 0 1  
Servo/Mechacon PWB 0 1

MODE	STOP	PLAY	REC	FWD. SEARCH	REV. SEARCH	PLAY PAUSE	REC PAUSE
IC No.							
IC2-1	3.7	0.8	0.9	2.2	2.6	3.8	3.8
2	1.0	2.5	2.4	2.7	2.8	1.0	1.0
3	3.2	2.7	2.5	2.7	2.8	2.4	2.7
4	5.0	5.0	5.0	5.0	5.0	5.0	5.0
5	0	1.3	1.3	2.4	2.4	0	1.3
6	0	1.3	1.3	2.4	2.4	0	1.3
7	0	1.3	1.3	2.4	2.4	0	1.3
8	0	0	0	0	0	0	0
9	3.1	2.4	2.4	2.7	2.8	2.3	2.3
10	1.9	1.9	1.9	1.9	1.9	2.3	2.3
11	0	0	0	0	0	0	0
12	3.0	3.0	3.0	3.0	3.0	2.3	2.3
13	3.1	2.4	2.4	2.7	2.8	2.3	2.3
14	2.4	3.8	3.8	3.8	3.8	1.7	1.7
IC4-1	1.4	-	-	-	-	-	-
2	1.4	-	-	-	-	-	-
3	1.4	-	-	-	-	-	-
4	0	-	-	-	-	-	-
5	2.0	-	-	-	-	-	-
6	4.2	-	-	-	-	-	-
7	0	-	-	-	-	-	-
8	5.0	-	-	-	-	-	-
IC201-1	0	-	-	-	-	-	-
2	5.0	-	-	-	-	-	-
3	5.0	-	-	-	-	-	-
4	0.4	-	-	-	-	-	-
5	4.9	-	-	-	-	-	-
6	3.6	-	-	-	-	-	-
7	3.5	-	-	-	-	-	-
8	2.2	-	-	-	-	-	-
9	2.2	-	-	-	-	-	-
10	0.8	-	-	-	-	-	-
11	0.8	-	-	-	-	-	-
12	0	-	-	-	-	-	-
13	0	-	-	-	-	-	-
14	4.2	-	-	-	-	-	-
IC301-1	0	-	-	-	-	-	-
2	10.1	-	-	-	-	-	-
3	0.7	-	-	-	-	-	-
4	0.8	-	-	-	-	-	-
5	10.2	-	-	-	-	-	-
6	0	-	-	-	-	-	-
7	0	-	-	-	-	-	-
8	0	-	-	-	-	-	-
9	0	-	-	-	-	-	-
10	0	-	-	-	-	-	-
11	10.2	-	-	-	-	-	-
12	0	-	-	-	-	-	-
13	0	-	-	-	-	-	-
14	0	-	-	-	-	-	-
15	0	-	-	-	-	-	-
16	0	-	-	-	-	-	-
17	5.3	-	-	-	-	-	-
18	3.4	-	-	-	-	-	-
19	3.5	-	-	-	-	-	-
20	2.9	-	-	-	-	-	-
21	3.0	-	-	-	-	-	-
22	6.9	-	-	-	-	-	-

MODE	STOP	PLAY	REC	FWD. SEARCH	REV. SEARCH	PLAY PAUSE	REC PAUSE
IC No.							
IC3-1	4.3	-	-	-	-	-	-
2	4.3	-	-	-	-	-	-
3	4.3	-	-	-	-	-	-
4	0	-	-	-	-	-	-
5	0	0	0	0	0	0	0
6	1.6	-	-	-	-	-	-
7	0.1	-	-	-	-	-	-
8	4.9	-	-	-	-	-	-
9	1.7	-	-	-	-	-	-
10	4.9	-	-	-	-	-	-
11	4.1	-	-	-	-	-	-
12	4.1	-	-	-	-	-	-
13	0.1	-	-	-	-	-	-
14	5.0	5.0	5.0	5.0	5.0	5.0	5.0
15	0.8	-	-	-	-	-	-
16	2.8	2.7	2.4	2.7	2.7	2.7	2.7
17	2.3	-	-	-	-	-	-
18	0.6	-	-	-	-	-	-
19	2.6	-	-	-	-	-	-
20	0.2	-	-	-	-	-	-
21	4.3	-	-	-	-	-	-
22	4.7	-	-	-	-	-	-
23	0	-	-	-	-	-	-
24	4.4	-	-	-	-	-	-
25	4.2	-	-	-	-	-	-
26	4.4	-	-	-	-	-	-
27	4.2	-	-	-	-	-	-
28	0	0	0	0	0	0	0
29	4.5	4.5	0	4.5	4.5	4.5	4.5
30	4.6	4.6	0	4.6	4.6	4.6	0
31	0.1	0.1	0.1	0.1	5.0	5.1	0.1
32	0	0	0	0	5.1	0	0
33	4.2	4.2	4.2	4.2	4.2	4.2	4.2
34	0	0	0	5.1	5.1	5.1	0
35	0	-	-	-	-	-	-
36	4.2	-	-	-	-	-	-
37	4.2	-	-	-	-	-	-
38	1.3	-	-	-	-	-	-
39	0	-	-	-	-	-	-
40	0	0	0	0	0	0	0
IC302-1	3.7	2.5	2.5	2.7	2.3	2.4	2.4
2	3.7	2.5	2.5	2.6	2.4	2.4	2.4
3	3.6	2.5	2.5	2.6	2.3	2.4	2.4
4	0	0	0	0	0	0	0
5	3.5	2.4	2.4	2.5	2.2	2.3	2.3
6	3.5	2.4	2.4	0	2.2	2.3	2.3
7	3.5	2.3	2.3	2.4	2.2	2.3	2.3
8	5.0	5.0	5.0	5.0	5.0	5.0	5.0

Spannungstabellen · DC voltage tables

Servoregelung/Mechaniksteuerung Platte 0 1  
Servo/Mechacon PWB 0 1

MODE TR No.	STOP			PLAY			REC			FWD. SEARCH			REV. SEARCH			PLAY PAUSE			REC PAUSE		
	B	C	E	B	C	E	B	C	E	B	C	E	B	C	E	B	C	E	B	C	E
Q 1	5.0	0	0	0	2.8	0	0	2.8	0	0	2.8	0	0	2.8	0	0	2.8	0	0	2.8	0
Q 2	0	0	0	0.4	0	0.4	2.8	0	0	2.8	0	0	2.8	0	0	2.8	0	0	2.8	0	0
Q 3	5.1	0	0	0	0.9	0	0	0.8	0	0	2.2	0	0	2.5	0	0	3.6	0	0	3.6	0
Q 4	0.3	0	0.9	0.6	0	1.2	0.6	0	1.2	1.9	0	2.4	2.2	0	2.8	3.3	0	3.8	3.6	0	3.8
Q 7	7.9	0	7.9	—	—	7.9	—	—	7.9	—	—	7.9	—	—	7.9	—	—	7.9	—	—	7.9
Q 8	0	7.9	7.9	—	—	7.9	—	—	7.9	—	—	7.9	—	—	7.9	—	—	7.9	—	—	7.9
Q 9	0	7.9	7.9	—	—	7.9	—	—	7.9	—	—	7.9	—	—	7.9	—	—	7.9	—	—	7.9
Q 10	7.9	0	7.9	—	—	7.9	—	—	7.9	—	—	7.9	—	—	7.9	—	—	7.9	—	—	7.9
Q 11	0	7.9	0	—	—	0	—	—	0	—	—	0	—	—	0	—	—	0	—	—	0
Q 12	4.3	0.1	0	—	—	0	—	—	0	—	—	0	—	—	0	—	—	0	—	—	0
Q 13	4.3	0.1	0	—	—	0	—	—	0	—	—	0	—	—	0	—	—	0	—	—	0
Q 14	0	7.9	0	—	—	0	—	—	0	—	—	0	—	—	0	—	—	0	—	—	0
Q 17	0	2.5	0	0	2.5	0	0	2.6	0	0	2.5	0	0	2.5	0	0	2.5	0	0	2.6	0
Q 32	4.2	0.1	0	2.1	2.5	0	2.1	2.5	0	2.1	2.5	0	2.1	2.5	0	4.1	0	0	4.2	—	0
Q 35	4.8	2.0	3.1	4.8	1.9	3.0	4.8	1.9	3.0	4.8	1.9	3.0	4.8	1.9	3.0	1.7	2.3	2.3	1.8	2.3	2.3
Q 43	0.1	2.8	0	0.1	2.8	0	0.1	2.8	0	4.8	0	0	4.8	0	0	0.1	2.8	0	0.1	2.8	0
Q201	0.1	1.2	0	2.0	0.7	0	2.0	0.7	0	2.0	0.7	0	2.0	0.7	0	2.0	0.7	0	2.0	0.8	0
Q202	4.3	0.1	0	2.2	0.7	0	2.2	0.7	0	2.2	0.7	0	2.2	0.7	0	2.2	0.7	0	2.2	0.7	0
Q203	0.1	1.2	0	2.1	0.7	0	2.1	0.7	0	2.1	0.7	0	2.1	0.7	0	2.1	0.7	0	2.1	0.7	0
Q204	1.3	0.7	0.7	0.7	4.0	0.5	0.8	4.0	0.5	0.7	4.1	0.5	0.7	4.1	0.5	0.7	4.0	0.5	0.8	4.6	0.6
Q205	0.6	0.1	0.2	0.8	4.1	0.5	0.8	4.0	0.5	0.7	4.1	0.5	0.7	4.1	0.5	0.7	4.1	0.5	0.8	4.6	0.6
Q206	0.6	0.2	0.7	0.7	4.1	0.5	0.7	4.1	0.5	0.7	4.1	0.5	0.7	4.1	0.5	0.7	4.1	0.5	0.7	4.7	0.6
Q207	0.6	0.2	0.1	0.7	4.1	0.5	0.7	4.1	0.5	0.7	4.1	0.5	0.7	4.1	0.5	0.7	4.1	0.5	0.7	4.7	0.6
Q208	0.6	0.2	0.2	0.7	4.1	0.5	0.7	4.1	0.5	0.7	4.1	0.5	0.7	4.1	0.5	0.7	4.1	0.5	0.7	4.7	0.5
Q209	0.6	0.7	0.2	0.7	4.1	0.5	0.7	4.0	0.5	0.7	4.0	0.5	0.7	4.1	0.5	0.7	4.0	0.5	0.7	4.6	0.6
Q210	0.7	0	0	5.5	3.0	5.7	5.4	2.9	5.7	5.5	3.0	5.8	5.4	2.9	5.7	5.4	2.9	5.7	6.3	3.4	6.0
Q211	0.2	0	0	5.4	2.9	5.7	5.4	2.9	5.7	5.5	3.0	5.8	5.4	2.9	5.7	5.4	2.9	5.7	6.4	3.4	6.7
Q212	0.2	0	0	0.5	2.9	0	5.4	2.9	5.7	5.5	2.9	5.8	5.4	2.9	5.7	5.4	2.9	5.7	6.3	3.4	6.6
Q213	0.2	0	0	0.5	2.9	0	0.5	2.9	0	0.5	3.0	0	0.5	2.9	0	0.5	2.9	0	0.6	3.4	0
Q214	0.2	0	0	0.5	2.9	0	0.5	2.9	0	0.5	3.0	0	0.5	2.9	0	0.5	2.9	0	0.6	3.4	0
Q215	0.7	0	0	0.5	2.9	0	0.5	2.9	0	0.5	3.0	0	0.5	2.9	0	0.5	2.9	0	0.6	3.4	0
Q303	9.6	5.1	10.1	9.5	5.1	10.1	9.6	5.1	10.1	9.5	5.1	10.1	9.5	5.1	10.1	9.5	5.1	10.1	9.6	5.1	10.1
Q304	10.2	1.9	10.2	9.8	2.9	10.1	9.8	2.9	10.1	9.5	6.3	10.1	9.5	6.3	10.1	10.0	9.9	10.1	9.9	10.0	10.1
Q307	10.2	0.1	10.2	9.7	5.7	10.1	9.7	5.7	10.1	9.6	5.8	10.1	9.6	5.8	10.1	9.7	5.8	10.1	9.6	6.6	10.1

Audio/Servo-Platte 0 4  
Audio/Servo PWB 0 4

MODE	STOP			PLAY			REC			FWD. SEARCH			REV. SEARCH			PLAY PAUSE			REC PAUSE		
	B	C	E	B	C	E	B	C	E	B	C	E	B	C	E	B	C	E	B	C	E
Q101	9.7	0	0.1	9.7	0	0.1	9.8	0	0.2	9.7	0	10.2	9.6	0.1	0.1	9.7	0	10.2	9.7	0.1	0.1
Q102	0	0.2	0	0	0.1	0.1	0	0.1	0	0	10.2	0.1	0	0.1	0.1	0	10.2	0	0.1	0.2	0.1
Q103	9.6	0	0	9.6	0.1	0.1	9.6	0	0.2	9.6	0.1	0.1	9.6	0	0.1	9.7	0	0.2	9.6	0	0.2
Q104	0	0.2	0	0.1	0.2	0.1	0	0.1	0.1	0	10.2	0.1	0.1	0.1	0.1	0	0.1	0.1	0	0.1	0.1
Q105	0.1	0	0	0	0.1	0	0.1	0	0.1	0.1	0	0.1	0	0	0	0	0	0	0	0	0.1
Q106	0	0	0	0	0.1	0	0	0.1	0.1	0.1	0	0.1	0	0	0	0.1	0.1	0.1	0.1	0.1	0
Q107	1.9	0	1.9	0.2	4.9	5.0	2.0	2.3	2.8	5.1	5.7	6.0	7.0	0.1	7.2	9.6	0.1	0	9.7	0.1	0
Q108	0	1.9	0.1	3.0	3.0	2.4	2.8	2.8	2.2	6.0	6.1	5.6	0.2	7.2	0.1	0.1	9.9	0.1	0.1	0.1	0
Q109	1.9	0	1.9	2.9	0.1	3.0	2.8	0	2.9	5.9	0.1	6.0	6.3	6.6	7.2	9.5	0	0	9.6	0.1	0.1
Q110	0	1.9	0	0.1	3.0	0	0	2.8	0	0.1	5.3	0.1	7.2	7.2	6.2	0.1	0	0	0.1	0.1	0.1
Q111	0.1	0	0	0	2.4	0.1	0	2.2	0	0	5.2	0.1	0.7	0.1	0.8	0	0	0	0	0	0
Q112	0	0.1	0	0.1	2.4	0.1	0.1	2.2	0.1	0.1	6.0	0	0.7	0.1	0.1	0	0	0	0.7	5.0	0.1
Q113	0.1	0	0	0.7	0.1	0.8	0.7	0.1	0.7	0.7	0.1	0.7	0.1	6.0	0.1	0.1	0	0	0.7	5.0	0
Q114	0	0	0	0.8	0.1	0.0	0.8	0.1	0.1	0.7	0.1	0	0	6.3	0.1	0.1	0	0.1	0.1	5.0	5.0
Q115	0.6	5.0	0	0.6	4.9	0.1	0.7	5.0	0	0.7	5.0	0	3.7	0.1	0	0.7	5.0	0	4.9	3.5	5.0
Q116	0.7	4.9	0.1	0.8	4.9	0	0.8	5.0	0	4.6	0	0.1	0.7	4.9	0	0.7	5.0	0	5.0	3.4	5.0
Q117	0.1	5.0	5.0	2.2	2.4	3.1	0.2	5.0	5.0	5.1	3.1	5.0	5.1	3.6	5.0	0.1	5.0	5.0	0.1	0.1	0
Q118	5.0	3.4	5.0	4.9	3.4	5.0	4.9	3.4	5.0	5.0	3.1	5.0	0.1	5.0	0	5.0	3.5	5.0	0	0	0
Q119	4.9	3.4	5.0	5.0	3.5	5.0	5.0	3.5	5.0	0	5.0	5.0	0	0.1	0	5.0	3.4	5.0	1.1	0.5	0.2
Q120	0	1.4	0	0	1.4	0	2.8	0	0	0	1.4	0	0	1.4	0	0	1.4	0	0	1.4	0
Q121	5.0	0.1	5.0	5.0	4.4	5.0	5.0	4.4	5.0	5.0	4.4	5.0	5.0	0.1	5.0	5.0	0	5.0	5.0	0	5.0

Audio/Servo-Platte 0 4  
Audio/Servo PWB 0 4

MODE IC No.	STOP	PLAY	REC	FWD. SEARCH	REV. SEARCH	PLAY PAUSE	REC PAUSE
IC101							
①	0.2	0.1	0.1	0.1	0.1	0.2	0.2
②	9.7	9.7	9.7	9.6	9.6	9.7	9.7
③	0	0	0	0	0.1	0.1	0.1
④	0.1	0.1	0	0.1	0	0	0
⑤	0.1	0	0	0	0.1	0.1	0.1
⑥	0	0	0	0.1	0.1	0	0
⑦	0	0.1	0	0	0.1	0	0.1
⑧	0	0	0	0.1	0	0	0
⑨	0.1	0	0	0	0	0	0.1
⑩	5.0	5.0	5.0	5.0	5.0	5.0	5.0
⑪	5.0	5.0	5.0	5.0	5.0	0	4.9
⑫	0	0	0	0.1	0	0.1	0.2
⑬	0	0	0.1	0.1	0.1	0	0.1
⑭	0	0	0.1	0	0	0	0
⑮	0.1	0.1	0.1	0.1	0.1	0.1	0
⑯	9.7	9.6	9.7	9.6	9.6	9.7	9.6
IC102							
①	1.9	2.9	2.8	6.2	7.0	9.9	0
②	1.9	2.0	2.0	5.3	6.8	9.5	9.6
③	0	2.9	2.8	6.1	0.2	3.1	0
④	0.1	0.1	0	0.1	5.1	0.1	0.1
⑤	0	0	0	0.1	3.0	0	0
⑥	0	0	0	0	2.5	0	0
⑦	0.1	0.1	0.1	0	0.1	0.1	0.1
⑧	0.1	0	0.1	0	0	0	0
⑨	0	0.1	0.1	0	0.1	0	0
⑩	5.0	4.9	5.0	5.0	5.0	5.0	5.0
⑪	5.0	5.0	5.0	5.0	5.0	5.0	5.0
⑫	0	2.4	2.5	2.4	0.1	0	0
⑬	0.1	3.1	3.1	3.0	0.1	0	0
⑭	0.1	5.1	5.2	5.1	0.1	0	0.1
⑮	0	0.1	0.1	0.1	7.0	0.1	0
⑯	1.9	2.8	2.9	6.1	6.0	9.5	9.6
IC103							
①	0.1	0	0	0.1	0	0	0
②	1.4	1.4	1.4	1.4	1.4	1.4	1.4
③	1.4	1.3	1.4	1.4	1.4	1.4	1.4
④	1.4	1.4	1.3	1.4	1.4	1.3	1.3
⑤	1.4	1.3	1.4	1.3	1.3	1.4	1.4
⑥	4.5	2.6	2.6	2.5	2.5	4.5	4.5
⑦	0.7	0.6	0.7	0.7	3.7	0.7	0.7
⑧	0	0	0.1	0	0.1	0.1	0
⑨	0.2	0.1	0.1	0.1	0	0.2	0.2
⑩	0	1.1	0.9	1.0	0.1	0.1	0
⑪	4.3	2.2	2.2	1.4	1.4	4.2	4.3
⑫	5.0	1.8	1.6	1.6	1.6	5.0	4.9
⑬	3.4	2.9	2.7	2.7	2.7	3.4	3.3
⑭	3.5	2.6	2.6	2.6	2.6	3.3	3.4
⑮	0.7	2.4	2.7	2.8	2.8	0.7	0.7
⑯	5.0	5.0	5.0	5.0	5.0	5.0	5.0
IC104							
①	1.4	1.3	2.5	1.4	1.4	1.4	1.4
②	1.4	1.4	1.5	1.4	1.5	1.4	1.5
③	1.4	1.4	1.6	1.3	1.4	1.4	1.4
④	0	0	0.1	0.1	0.1	0.1	0
⑤	2.0	1.9	2.0	2.0	2.0	2.0	2.0
⑥	0.6	0.6	2.7	2.8	2.8	0.6	0.5
⑦	0	0	0	0	0	0	0
⑧	5.0	5.0	5.0	5.0	5.0	5.0	5.0

MODE IC No.	STOP	PLAY	REC	FWD. SEARCH	REV. SEARCH	PLAY PAUSE	REC PAUSE
IC105							
①	3.9	2.3	2.4	2.4	2.3	2.3	2.6
②	0.7	2.5	2.5	2.6	2.5	2.5	2.5
③	1.7	2.5	2.5	2.6	2.4	2.5	2.6
④	5.0	5.0	5.0	5.0	5.0	5.0	5.0
⑤	0.4	0.4	0.4	0.4	0.4	0.4	0.3
⑥	0.4	0.3	0.3	0.3	0.3	0.3	0.3
⑦	0	0	0.1	0	0	0	0
⑧	0	0	0	0	0	0	0
⑨	3.3	2.5	2.6	2.6	2.5	2.5	2.6
⑩	1.7	1.7	1.7	1.6	1.7	1.7	1.7
⑪	0	0	0	0.1	0.1	0	0
⑫	3.4	3.3	3.3	3.3	3.4	3.3	3.3
⑬	3.4	2.6	2.7	2.6	2.4	2.5	2.6
⑭	3.2	3.9	3.9	3.9	3.8	3.9	3.9
IC106							
①	0.1	0.1	0.1	0.1	0	0	0.1
②	1.4	1.4	1.4	1.4	1.4	1.3	1.4
③	1.5	1.4	1.5	1.4	1.4	1.5	1.4
④	1.4	1.4	1.4	1.4	1.4	1.4	1.4
⑤	1.4	1.4	1.4	1.4	1.4	1.4	1.4
⑥	4.3	2.3	2.3	2.2	2.3	2.2	2.2
⑦	0.7	0.6	0.7	0.7	3.7	0.6	0.7
⑧	0.1	0	0.1	0	0	0	0
⑨	0.1	0.1	0.1	0.1	0.1	0.2	0.2
⑩	0.1	0.2	0.2	0.2	0.0	0.2	0.2
⑪	4.2	2.2	2.2	2.2	2.2	2.2	2.2
⑫	5.0	1.6	1.6	1.5	1.6	1.6	1.5
⑬	3.4	2.7	2.8	2.7	2.8	2.7	2.8
⑭	3.6	2.6	2.6	2.6	2.6	2.6	2.6
⑮	0.7	2.5	2.6	2.6	2.4	2.5	2.5
⑯	5.0	5.0	5.0	5.0	5.0	5.0	5.0



# Spannungstabellen · DC voltage tables

Servoregelung/Mechaniksteuerung Platte 0 1

Servo/Mechacon PWB 0 1

MODE IC No.	STOP	PLAY	REC	FWD. SEARCH	REV. SEARCH	PLAY PAUSE	REC PAUSE
IC1-①	10.1	10.2	10.2	10.1	10.1	10.2	0.2
②	0	0	0	0	0	0.1	0.1
③	4.9	5.0	5.0	5.0	5.0	5.0	5.0
IC5-①	0	0	0	0	0	0	0
②	0	0	0	0	0	0	0.1
③	0	0	0	0	0	0	0.1
④	0.1	0	0	0	0	0	0
⑤	5.0	0	0	0	0	0	0
⑥	0	0	0.1	0	0	0.1	0
⑦	0.1	0	0	0	0	0	0
⑧	5.0	4.9	5.0	5.0	5.0	5.0	5.0
⑨	5.1	4.9	5.0	5.0	5.0	5.0	5.0
⑩	0	0	0.1	0	0	0.1	0
⑪	0.2	0.2	0.3	0.3	0.2	0.2	0.2
⑫	5.0	4.9	4.9	4.9	4.9	4.9	4.9
⑬	0	0	0	0	0	0.1	0.1
⑭	0	1.3	1.4	1.3	1.3	1.3	1.3
⑮	0	2.3	2.4	2.4	2.5	2.4	2.5
⑯	5.0	5.0	5.0	5.0	5.0	5.0	5.1
IC6-①	0	0	0	0	0	0	0.1
②	10.1	10.1	10.0	9.9	9.9	10.0	9.9
③	5.2	0	5.2	0	0	5.1	5.1
IC8-①	5.1	5.1	5.1	5.0	5.1	5.0	5.1
②	5.0	5.0	5.0	5.0	5.0	4.9	4.7
③	5.1	5.2	5.1	5.0	5.0	5.1	5.1
④	0	4.9	5.0	5.0	0	5.0	5.0
⑤	5.1	5.1	5.1	5.0	5.0	5.1	5.1
⑥	5.1	5.0	0	0	0	0.1	0
⑦	5.1	1.1	5.0	5.0	5.0	5.0	5.1
⑧	4.9	0.1	0	0.1	0	0	0
⑨	5.0	5.0	5.0	5.0	5.0	5.0	5.0
⑩	0	0	0	0	0.1	0.1	0
⑪	0	0	0	0	0	0	0
⑫	5.1	5.0	4.9	5.0	5.0	5.0	4.9
⑬	0	0	0	0	0	0	0
⑭	5.1	5.0	5.0	5.0	5.0	5.0	5.1
⑮	5.0	0	0.1	0	0	0	0
⑯	5.0	5.1	5.1	5.0	5.0	5.0	5.1
⑰	5.1	5.0	0	0	0.1	0	5.0
⑱	5.1	5.1	5.0	5.1	5.0	5.1	5.1
⑳	5.1	5.1	5.1	5.1	5.1	5.1	5.1
IC9-①	5.1	5.1	5.1	5.0	5.1	5.1	5.1
②	5.1	5.1	0.1	5.1	5.1	5.1	5.1
③	5.1	0.1	0	5.1	5.1	5.1	5.1
④	0.1	5.1	0	5.1	5.1	5.1	0.1
⑤	5.1	5.1	0	5.1	5.0	5.0	0.1
⑥	5.1	5.1	5.2	5.1	5.1	5.1	5.1
⑦	4.9	2.4	0.1	0.6	4.9	0	0
⑧	5.2	0.1	1.3	5.1	1.6	0.1	0
⑨	3.3	0.1	0.1	0.1	0	0	0.1
⑩	3.3	3.3	3.3	3.3	0.1	3.3	3.3
⑪	5.1	5.1	5.1	5.1	5.1	5.1	0
⑫	5.1	5.2	5.1	5.1	5.0	5.1	0
⑬	5.0	5.0	4.9	4.9	4.9	4.9	0
⑭	5.1	5.0	5.0	5.1	5.0	5.0	0

MODE IC No.	STOP	PLAY	REC	FWD. SEARCH	REV. SEARCH	PLAY PAUSE	REC PAUSE
IC9-⑮	5.1	5.1	5.1	5.0	5.0	5.1	0
⑯	5.1	5.1	5.1	5.0	5.1	5.1	0
⑰	5.1	0	0	0	0	0.1	0
⑱	0	5.1	5.1	5.1	0	0.1	0
⑲	0	0	0.1	0.1	5.0	0.1	0
⑳	5.1	0	0	0.1	0	0.1	0
㉑	0	0	0.1	0	0	0	0
㉒	0	0	0	0.1	0	0.1	0
㉓	2.7	2.7	2.7	2.7	2.7	2.7	0
㉔	2.8	2.9	2.8	2.8	2.8	2.8	0
㉕	5.2	5.1	5.2	5.1	5.0	5.1	0
㉖	5.2	5.2	5.2	5.1	5.1	5.1	0
㉗	5.1	5.1	5.1	5.2	5.1	5.1	0
㉘	0.1	0.1	0.1	0	0.1	0	0
㉙	0.1	0	0.1	0	0	0.1	0
㉚	5.0	4.9	0.1	4.9	5.0	5.0	0.1
㉛	5.1	5.1	0.1	5.1	5.0	5.1	0.1
㉜	0.1	0.1	0.1	5.0	5.1	5.0	0
㉝	5.1	5.1	0.1	5.1	5.1	5.1	0
㉞	5.1	0.1	5.1	0.1	0.1	0	0
㉟	0.1	0.2	0.1	5.1	5.1	0.1	0
㊱	0	2.6	2.6	2.5	2.5	0.1	0
㊲	0	2.6	2.5	2.6	2.5	2.5	0
㊳	5.1	5.0	5.1	0	5.1	5.1	0
㊴	5.1	5.1	5.1	5.0	0	0	0
㊵	0.1	5.0	5.1	5.1	5.0	0	0
㊶	5.0	5.1	0	5.0	5.1	0	0
㊷	5.1	5.0	5.1	5.1	5.1	0	0.2
㊸	5.1	5.0	5.1	5.0	5.1	0	0
㊹	5.1	0	0	0.1	0.1	0	0
㊺	0.6	0.6	0.6	0.6	0.6	0.6	0.6
㊻	0	0	0.1	0	0	0	0
㊼	0.1	0	0	0	0	0	0
㊽	0.1	5.0	5.0	0.1	0.1	0	0
㊾	0.1	0	0.1	5.0	5.0	0	0
㊿	5.1	5.1	5.1	5.1	5.0	0	0
①	5.1	5.1	5.1	5.1	5.0	0	0
②	5.1	5.1	5.1	5.1	5.1	0	0
③	5.1	5.1	5.1	5.1	5.1	0	0
④	5.1	5.1	5.1	5.1	5.1	0	0
⑤	5.1	5.1	5.1	5.1	5.1	0	0
⑥	5.1	5.1	5.1	5.1	5.1	0	0
⑦	5.1	5.1	5.1	5.1	5.1	0	0
⑧	5.1	5.1	5.1	5.1	5.1	0	0
⑨	5.1	5.1	5.1	5.1	5.1	0	0
⑩	5.1	5.1	5.1	5.1	5.1	0	0
⑪	5.1	5.1	5.1	5.1	5.1	0	0
⑫	5.1	5.1	5.1	5.1	5.1	0	0
⑬	5.1	5.1	5.1	5.1	5.1	0	0
⑭	5.1	5.1	5.1	5.1	5.1	0	0
⑮	5.1	5.1	5.1	5.1	5.1	0	0
⑯	5.1	5.1	5.1	5.1	5.1	0	0
⑰	5.1	5.1	5.1	5.1	5.1	0	0
⑱	5.1	5.1	5.1	5.1	5.1	0	0
⑲	5.1	5.1	5.1	5.1	5.1	0	0
⑳	5.1	5.1	5.1	5.1	5.1	0	0
㉑	5.1	5.1	5.1	5.1	5.1	0	0
㉒	5.1	5.1	5.1	5.1	5.1	0	0
㉓	5.1	5.1	5.1	5.1	5.1	0	0
㉔	5.1	5.1	5.1	5.1	5.1	0	0
㉕	5.1	5.1	5.1	5.1	5.1	0	0
㉖	5.1	5.1	5.1	5.1	5.1	0	0
㉗	5.1	5.1	5.1	5.1	5.1	0	0
㉘	5.1	5.1	5.1	5.1	5.1	0	0
㉙	5.1	5.1	5.1	5.1	5.1	0	0
㉚	5.1	5.1	5.1	5.1	5.1	0	0
㉛	5.1	5.1	5.1	5.1	5.1	0	0
㉜	5.1	5.1	5.1	5.1	5.1	0	0
㉝	5.1	5.1	5.1	5.1	5.1	0	0
㉞	5.1	5.1	5.1	5.1	5.1	0	0
㉟	5.1	5.1	5.1	5.1	5.1	0	0
㊱	5.1	5.1	5.1	5.1	5.1	0	0
㊲	5.1	5.1	5.1	5.1	5.1	0	0
㊳	5.1	5.1	5.1	5.1	5.1	0	0
㊴	5.1	5.1	5.1	5.1	5.1	0	0
㊵	5.1	5.1	5.1	5.1	5.1	0	0
㊶	5.1	5.1	5.1	5.1	5.1	0	0
㊷	5.1	5.1	5.1	5.1	5.1	0	0
㊸	5.1	5.1	5.1	5.1	5.1	0	0
㊹	5.1	5.1	5.1	5.1	5.1	0	0
㊺	5.1	5.1	5.1	5.1	5.1	0	0
㊻	5.1	5.1	5.1	5.1	5.1	0	0
㊼	5.1	5.1	5.1	5.1	5.1	0	0
㊽	5.1	5.1	5.1	5.1	5.1	0	0
㊾	5.1	5.1	5.1	5.1	5.1	0	0
㊿	5.1	5.1	5.1	5.1	5.1	0	0
①	5.0	0	0	0	0	0.1	0
②	5.0	5.1	5.0	5.1	5.1	0	0
③	5.1	5.0	0	5.0	5.1	5.0	0
④	0.1	5.0	5.0	5.0	5.0	5.1	5.1
⑤	5.1	5.1	5.0	5.1	0	5.0	5.1
⑥	5.1	5.1	5.0	0	5.0	5.1	5.1
⑦	5.0	5.0	0	4.9	5.0	5.0	5.0
⑧	0	0	0.1	0	0.1	0	0.1
⑨	5.0	5.0	5.0	5.0	5.0	5.0	5.0
⑩	7.5	5.0	0	5.2	5.1	5.0	7.6
⑪	0.6	3.9	1.3	0.1	0.7	3.8	0.6
⑫	0.6	3.8	0.7	0.7	0	3.8	0.6
⑬	0.1	3.9	0.7	0.6	0.7	3.9	0.6
⑭	0.6	3.8	0	0.6	0.7	3.9	0
⑮	3.9	3.9	3.8	3.8	3.9	0.1	0
⑯	3.8	0.1	0.1	0	0	0.0	0.1

Servoregelung/Mechaniksteuerung Platte **0 1**  
 Servo/Mechacon PWB **0 1**

MODE IC No.	STOP	PLAY	REC	FWD. SEARCH	REV. SEARCH	PLAY PAUSE	REC PAUSE
IC11-							
①	5.1	5.1	5.1	5.1	5.1	5.1	5.1
②	0	0	0	0	0	0.1	0.1
③	5.2	5.1	5.0	5.1	5.1	5.1	5.1
④	5.1	5.1	5.1	5.0	5.1	5.1	5.1
⑤	0	0	0	0	0.1	0	0
⑥	5.1	5.1	5.0	5.1	5.1	5.1	5.1
⑦	0.1	0	0.1	0	0	0.1	0.1
⑧	5.1	5.1	5.1	5.0	5.0	5.1	5.1
⑨	5.1	5.1	5.2	5.1	5.1	5.1	5.2
⑩	5.1	5.1	5.1	5.1	5.1	5.1	5.1
⑪	0	0	0	0.1	0	0	0
⑫	0.1	0.1	0.1	0	0	0	0.1
⑬	0	0.1	0	0	0.1	0	0
⑭	5.1	5.1	5.2	5.1	5.1	5.1	5.1
IC12-							
①	5.1	0	0	5.1	5.1	5.1	5.2
②	5.0	5.0	0.1	5.0	5.0	5.0	5.0
③	0	5.1	5.1	0.1	0	0.1	0.1
④	0.1	0	0.1	0	0.1	0	0.1
⑤	5.1	5.1	5.1	5.1	5.1	5.1	5.1
⑥	5.2	5.2	5.1	5.1	5.0	5.1	5.1
⑦	0	0	0	0	0	0.1	0.1
⑧	2.6	0.9	0.1	0.6	0.7	3.8	0.1
⑨	0	0	0	0	0	0	0.1
⑩	5.1	5.1	5.2	5.2	5.2	5.2	5.1
⑪	0	5.1	5.1	5.1	5.1	5.1	5.1
⑫	5.1	5.1	0.1	5.1	5.1	5.1	0.1
⑬	5.1	0	5.1	0.1	0.1	0	5.1
⑭	5.1	5.2	5.1	5.1	5.1	5.1	5.1
IC13-							
①	5.1	5.1	0	5.1	5.1	5.1	5.1
②	0	0	5.1	0	0.1	0	0
③	0.9	4.1	0.9	3.6	3.5	2.2	0.8
④	0.4	0.1	1.7	0.1	1.4	4.8	5.1
⑤	1.3	1.2	1.2	3.3	1.3	4.5	4.6
⑥	0.3	0	0.1	1.6	4.9	0.1	0
⑦	0.1	0	0	0	0	0	0
⑧	0	0.1	0.1	0	0.1	0	0
⑨	5.1	5.1	5.1	5.1	5.1	5.1	5.2
⑩	5.1	5.2	5.1	5.1	5.1	5.1	5.1
⑪	0.1	0	0	0.1	0	0	0
⑫	0.1	0	0	0	0	0	0.1
⑬	4.9	4.9	4.9	4.9	4.9	4.9	4.9
⑭	5.2	5.2	5.1	5.1	5.1	5.1	5.2
IC14-							
①	0	0	0	0	0	0	0
②	3.0	3.0	3.0	3.0	3.0	0.1	3.0
③	2.5	2.5	2.5	2.5	2.5	0	2.5
④	5.0	5.0	5.0	5.0	5.0	0	5.0
⑤	2.5	2.5	2.6	2.5	2.5	0	2.5
⑥	2.9	2.9	2.9	2.9	2.8	0	2.9
⑦	0	0	0	0	0	0	0
⑧	0.7	0.7	0.7	0.8	0.7	0	0
⑨	1.4	1.4	1.4	1.5	1.4	0	0
⑩	0.6	0.6	0.6	0.6	0.6	0	0.6
⑪	0	0	0	0	0	0	0
⑫	0.1	0.1	0.1	0.1	0.1	0	0.1
⑬	2.5	2.5	2.5	2.5	2.4	0.1	2.5
⑭	0	0	0.1	0	0	0	0

MODE IC No.	STOP	PLAY	REC	FWD. SEARCH	REV. SEARCH	PLAY PAUSE	REC PAUSE
IC401-							
①	4.9	0	0	0	0.1	0	0
②	0.1	0.1	0	0	0	0	0
③	5.0	5.0	5.0	4.9	4.9	0	0
④	5.0	5.0	5.0	5.0	4.9	0	0.1
⑤	0.1	0	0.1	0	0.1	0	0
⑥	0.1	5.0	5.1	5.0	4.9	0	0
⑦	0	0	0.1	0.1	0	0	0
⑧	5.0	0.1	0	0	0	0	0
⑨	5.0	0	0.1	0	0.1	0	0
⑩	0.1	5.0	5.0	0	4.9	0	0
⑪	5.0	5.0	5.0	5.0	5.0	0	0
⑫	0	0	0	0.1	0	0	0
⑬	0	0	0	5.0	0	0	0
⑭	5.0	5.0	5.0	5.0	5.0	0	0
IC402-							
①	4.8	4.8	4.8	0	4.8	0	0
②	4.8	4.8	—	4.8	4.8	4.8	0
③	4.9	4.9	4.9	4.9	4.9	4.9	0
④	0	0	0	0	0	0	0
⑤	0	0	0	0	0	0	0
⑥	0	0	0	0	0	0	0
⑦	0	0	0	0	0	0	0
⑧	4.9	4.9	4.9	4.9	4.9	4.9	4.9
⑨	4.9	4.9	4.9	4.9	4.9	4.9	0
⑩	4.9	4.9	4.9	4.9	4.9	4.9	4.9
⑪	4.9	4.9	4.9	4.9	4.9	4.9	4.9
⑫	5.0	5.0	5.0	5.0	5.0	5.0	5.0
⑬	4.8	0	4.8	4.8	4.8	4.8	0
⑭	4.9	4.9	4.9	4.9	4.9	4.9	4.9

# Spannungstabellen · DC voltage tables

Servoregelung/Mechaniksteuerung Platte ☐ 0 ☐ 1

Servo/Mechacon PWB ☐ 0 ☐ 1

MODE TR No.	STOP			PLAY			REC			FWD. SEARCH			REV. SEARCH			PLAY PAUSE			REC PAUSE		
	B	C	E	B	C	E	B	C	E	B	C	E	B	C	E	B	C	E	B	C	E
Q 5	0	4.6	0	5.1	0.1	0.1	0	4.6	0	5.1	0.1	0	5.1	0	0	5.1	0.1	0	0.1	4.6	0.1
Q15	5.0	0	5.1	5.0	0.1	5.0	5.0	0.2	5.0	4.9	0.1	5.0	5.0	0.1	4.9	5.0	0.1	5.0	5.0	0.2	5.0
Q16	5.1	0.1	0	0.1	4.6	0	5.1	0	0	0	4.6	0	0	4.6	0	0	4.5	0	5.1	0.1	0
Q19	10.2	0	10.1	10.1	0.1	10.2	10.1	0	10.2	10.1	0.1	10.1	10.1	0	10.1	10.1	0	10.1	10.2	0	10.1
Q20	5.2	0	5.2	5.1	0.1	5.2	5.1	0	5.1	5.1	0	5.1	5.1	0.1	5.1	5.1	0.1	5.1	5.1	0.1	5.2
Q22	0	10.2	0	0	10.2	0	0	10.1	0	0	10.1	0	0	10.1	0	0	10.2	0	0	10.2	0
Q23	0.1	10.2	0	0	10.1	0.1	0.1	10.2	0	0	10.1	0	0	10.1	0	0	10.2	0	0	10.1	0
Q24	3.7	0.1	0.1	0.1	2.5	0	0	2.5	0	1.2	10.1	0	5.1	3.8	0.1	0	2.5	0.1	0	2.9	0
Q25	3.9	5.1	3.3	3.8	5.2	3.3	3.9	5.1	3.4	3.9	5.2	3.4	3.9	5.1	3.3	3.8	5.2	3.4	3.9	5.1	3.4
Q26	5.0	0.1	0	5.0	0	0	0.1	3.3	0	5.0	0.1	0	5.0	0	0	5.0	0.1	0	5.0	0.1	0
Q27	4.7	0	0	0.1	7.1	0	4.6	0.1	0	0	7.1	0	0.1	7.1	0	0	7.0	0	4.6	0.1	0
Q28	0	5.0	0	0.1	4.9	0	3.7	0	0	0	5.0	0	0.1	5.0	0	0.1	5.0	0.1	0.1	5.0	0.1
Q29	0	2.0	0	5.1	0	0	5.1	0	0	5.1	0	0	5.1	0	0.1	5.1	0.1	0	5.1	0.1	0
Q30	0.1	2.7	0	3.6	0	0	3.6	0	0	3.5	0.1	0.1	3.5	0	0	3.6	0	0	3.6	0	0
Q31	5.1	0	0	5.1	0	0.1	0	0.1	0	5.1	0	0	5.1	0	0	5.1	0	0	0	0.1	0
Q33	0	5.1	0	2.1	2.5	0	2.1	2.6	0	2.1	0.5	0	2.0	2.6	0	2.1	2.5	0	2.1	2.6	0
Q34	5.0	0	0	5.0	0	0	5.0	0	0	5.0	0	0	5.0	0	0	5.0	0	0	5.0	0	0
Q36	0	5.0	0	4.5	0.1	0	0.1	5.0	0	4.6	0.1	0.1	4.6	0.1	0.1	4.6	0	0.1	0	5.1	0
Q37	0	0.1	0.1	4.1	0	0	4.2	0	0	4.2	0	0	4.2	0	0	4.2	0	0	4.2	0	0
Q38	0	4.2	0	0.1	0.1	0	0.1	4.2	0	0.1	4.2	0.1	0	4.2	0.1	0	4.2	0	0	4.2	0.1
Q39	0.1	0	0	0	1.6	0	0.1	1.5	0	0	1.6	0	0	1.5	0	0	1.5	0.1	0.1	1.6	0.1
Q40	0.5	0	0	0.1	2.5	0	0	2.6	0	0.1	2.5	0	0	2.5	0.1	0.1	2.5	0	0	2.9	0.1
Q41	5.1	3.8	0	5.1	3.8	0	0	2.1	0	5.1	3.8	0	0	2.5	0	5.1	3.8	0.1	5.1	3.8	0
Q42	0	10.2	0	0.1	10.1	0	0	10.1	0	0.1	2.5	0	0	10.1	0	0	10.1	0	0	10.2	0

Servoregelung/Mechaniksteuerung Platte ☐ 0 ☐ 1 (Steckeranschlüsse)

Servo/Mechacon PWB ☐ 0 ☐ 1 (Connectors)

MODE CN No.	STOP	PLAY	REC	FWD. SEARCH	REV. SEARCH	PLAY PAUSE	REC PAUSE
CN1-①	3.8	3.8	3.8	3.8	3.9	0	0.1
②	3.8	0.1	0.1	0	0.1	0	0
③	0.6	3.9	0	0.7	0.7	3.9	0.1
④	5.1	5.1	5.1	5.1	5.1	5.1	5.1
⑤	5.1	5.1	5.0	5.0	5.1	5.0	4.9
⑥	5.1	5.2	5.1	5.1	5.1	5.1	5.1
⑦	0.1	2.5	0.1	0	4.2	4.9	4.9
⑧	0.1	0	0	0.1	0	0	0.1
⑨	0	0	0	0	0	0.1	0.1
⑩	5.0	5.0	5.0	0.1	5.0	5.0	5.0
⑪	0	0	0.1	0.1	0.1	0	0
⑫	0	0.1	0	0	0	0	0
⑬	0	0	3.3	0	0.1	0	0
⑭	0.1	3.8	3.9	0.6	0.7	3.8	0.6
⑮	0.6	3.8	0.7	0.7	0	3.9	0.6
⑯	0.6	3.8	0.7	0	0.7	3.9	0.6
⑰	5.1	5.1	5.1	5.1	5.1	5.1	5.1
⑱	5.1	5.2	5.1	5.0	5.1	5.1	5.2
⑲	5.0	5.1	5.1	5.0	5.1	5.1	5.1
⑳	5.1	5.1	5.1	5.1	5.2	5.2	5.1
㉑	3.4	3.4	3.4	3.2	3.4	3.3	3.4
㉒	3.3	0.1	0.1	0.1	0.1	0	0.1
㉓	3.4	0	3.3	3.3	0	3.3	0
㉔	0	0.1	0.1	0	0	0	0
㉕	0	0	0	0	0	0	0
㉖	0	0.1	0	0	0.1	0.1	0

MODE CN No.	STOP	PLAY	REC	FWD. SEARCH	REV. SEARCH	PLAY PAUSE	REC PAUSE
CN2-①	4.0	3.9	2.6	4.0	4.0	3.9	4.0
②	0.1	4.6	0.1	4.6	4.5	4.6	0
③	5.0	0.1	5.0	0.1	0.1	0.1	5.0
④	5.1	5.0	5.0	5.0	5.0	5.0	5.0
⑤	3.0	2.7	2.7	2.6	2.6	2.6	2.8
⑥	0.4	0.4	0.4	0.4	0.4	0.4	0.4
⑦	6.7	6.7	6.4	6.6	6.7	6.3	6.7
⑧	0 0	0	0.1	0.1	0	0.1	0
CN3-①	3.1	0	0.1	0.1	0.1	0	0
②	2.0	0	0.1	0	0	0.1	0
③	4.2	0.1	0	5.1	5.1	5.0	0.1
④	0	5.0	5.0	5.0	5.0	5.0	5.0
⑤	3.1	4.0	3.8	4.0	4.1	3.9	4.0
⑥	2.0	0	0.1	0.1	0	0	0.1
⑦	4.2	2.2	2.1	2.1	2.1	2.1	2.1
⑧	0	0	0.1	0	0	0.1	0.1

Servoregelung/Mechaniksteuerung Platte **0 1** (Steckeranschlüsse)  
 Servo/Mechacon PWB **0 1** (Connectors)

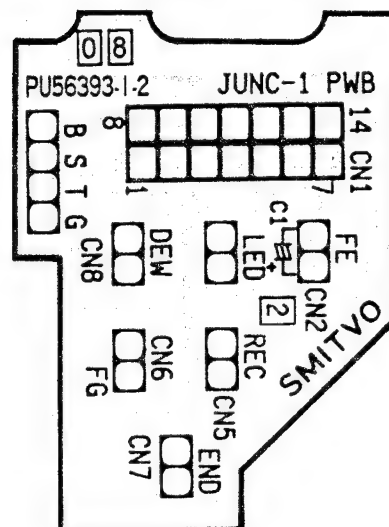
MODE CN NO.	STOP	PLAY	REC	FWD. SEARCH	REV. SEARCH	PLAY PAUSE	REC PAUSE
CN4-①	0.6	2.5	2.4	2.6	2.4	2.5	2.5
②	0.5	2.8	2.8	2.7	2.8	4.6	4.5
③	0	0	0	0	0	0.1	0
④	4.8	2.6	2.6	2.6	2.6	4.7	4.7
⑤	4.2	2.3	2.3	1.4	1.4	4.3	4.3
⑥	0.1	0.1	0.1	0.1	5.1	0.1	0
⑦	0.1	0.1	0.1	5.1	5.1	0.1	0.1
⑧	0.1	5.2	5.2	5.1	0.1	0	0.1
⑨	5.0	0	0	0.1	0	0	0
⑩	0.1	0.1	0.1	0	0	0	0.1
⑪	3.9	2.3	2.3	2.4	2.4	2.3	2.6
⑫	0.7	2.7	2.7	2.8	2.9	0.7	0.8
⑬	0	0.1	0	0	0.1	0.1	0.1
⑭	0.1	2.1	2.1	2.1	2.2	2.1	2.1
⑮	0.1	0.1	0	0	0	0.1	0
⑯	10.2	10.1	10.1	10.1	10.1	10.1	10.2
⑰	0	0	0	0	0.1	0	0.1
⑱	5.0	5.0	5.0	5.0	5.0	5.0	5.0
⑲	0.1	0	0	0.1	0	0	0
⑳	1.8	2.8	2.8	5.9	6.9	10.0	10.0
㉑	0	0.1	0.1	0	0	0	0
㉒	0	0.1	0	0	0.1	0.1	0
㉓	4.9	0	0	0.1	0	0.1	0
㉔	0.1	0	5.0	5.0	0	5.0	5.0
㉕	0.1	0.1	0	0	0	0.1	0.1
㉖	1.0	0.9	2.4	0.9	1.0	1.0	1.0
㉗	3.0	3.1	2.3	2.1	2.4	2.2	2.3
㉘	0	0	0.1	0	0.1	0.1	0
CN5-①	0.1	4.2	0.1	4.1	4.1	4.1	0
②	0	0.1	5.1	0.1	0	0	0
③	0.1	5.1	5.1	0	0.1	0.1	0.1
④	0	0.1	0	0	0	0.1	0
⑤	5.0	5.0	5.0	5.0	5.0	5.0	5.0
⑥	6.5	6.7	6.4	6.7	6.7	6.4	6.6
⑦	0.3	0.9	0.3	0.7	0.8	0.2	0.2
⑧	0.1	0	0	0	0	0	0.1
⑨	5.0	0.1	0	0.1	0	0	0
⑩	0.1	2.3	2.4	2.3	2.3	2.3	2.3
CN6-①	0.2	0.2	0.2	0.1	0.1	0.1	0.2
②	0	0.1	0	0	0	0	0
③	0	0	0	0.1	0.1	0	0
④	0	0	0.1	0.1	0	0	0.1
⑤	0.1	0.1	0.1	0.1	0.1	0.1	0.1
⑥	0.2	0.5	0.3	0.7	0.8	0.3	0.2
⑦	0.1	0.4	0.1	1.1	0.7	0.2	0.1
⑧	0.9	0.8	1.0	1.6	4.3	0.8	0.9
⑨	4.6	4.6	4.4	1.2	1.9	1.4	1.3
⑩	2.1	2.2	2.2	2.2	2.1	2.2	2.1
⑪	0	0	0	0.1	0	0	0
⑫	0.5	0.4	0.4	0.5	0.4	0.5	0.4
⑬	5.1	5.0	5.0	5.0	5.0	5.0	5.0
⑭	0.1	0.1	0	0	0.1	0	0
CN7-①	0	0	0.1	0.1	0.1	0	0.1
②	0	0.1	0.1	0	0	0	0

MODE CN No.	STOP	PLAY	REC	FWD. SEARCH	REV. SEARCH	PLAY PAUSE	REC PAUSE
CN8-①	0	0	0	0.1	0	0.1	0
②	0	0	0.1	0	0.1	0	0
③	0	2.9	2.9	3.0	3.0	2.9	3.3
④	0.1	2.8	2.9	3.0	2.9	2.9	3.3
⑤	0.1	2.9	3.0	3.0	3.0	2.9	3.3
⑥	3.6	3.5	3.6	3.6	3.6	3.6	3.6
⑦	4.3	4.3	4.3	4.3	4.4	4.3	4.2
⑧	3.6	3.6	3.6	3.5	3.7	3.6	3.6
⑨	0.9	0.8	0.8	0.8	0.9	0.8	0.8
⑩	0	0	0	0	0	0	0
⑪	2.2	2.2	2.2	2.2	2.4	2.2	2.2
⑫	0.8	0.8	0.8	0.8	0.8	0.8	0.8
⑬	2.3	2.2	2.2	2.3	2.2	2.2	2.3
CN9-①	0.1	0	0	0	0	0	0
②	0.1	0.1	0	0.1	0	0	0
CN10-①	4.3	2.2	2.1	2.1	2.1	2.1	2.1
②	4.3	2.8	2.7	2.6	2.9	2.4	2.9
③	6.5	4.6	2.4	5.0	5.2	5.2	2.4
④	6.4	4.5	2.3	5.4	5.0	5.2	2.2
⑤	0	0.1	0.1	0	0	0	0
⑥	0.1	5.0	2.3	5.1	4.3	5.0	2.1
⑦	6.5	4.4	2.4	5.1	5.3	0	1.4
⑧	0	0	0.1	0.1	0	0	0
CN11-①	5.0	5.0	0.1	0	0	0.1	5.0
②	5.2	5.2	5.1	5.1	5.1	5.1	5.1
③	0.1	0.1	0	0.2	0.2	0.2	0.1
④	2.9	3.9	3.8	4.1	4.1	3.9	4.2
⑤	0	0.1	0	0	0	0	0
⑥	0.1	0	0.1	0	0	0.1	0
⑦	0	0	0	0	0	0.1	0.1
⑧	0.1	0	0	0	0.1	0	0
⑨	5.0	5.0	5.0	5.0	5.0	5.0	5.0
⑩	6.6	6.4	6.4	6.7	6.6	6.4	6.9
⑪	0.1	0	0	0	0.1	0	0.1
⑫	10.1	10.1	10.1	10.1	10.0	10.1	10.1
⑬	5.1	5.2	5.2	5.1	5.1	5.1	5.1
CN12-①	5.1	5.2	5.1	5.1	5.2	5.2	5.1
②	0.1	0	0	0	0	0	0
③	0.5	2.8	2.8	3.2	2.6	2.5	4.6
④	0	2.8	2.8	2.4	2.7	2.5	4.5
⑤	0.1	0	0	0	0	0.1	0.1

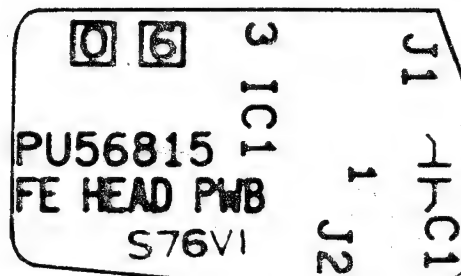
**0 4 Audio/Servo Platte (Steckeranschlüsse)  
Audio/Servo PWB (Connectors)**

MODE CN No.	STOP	PLAY	REC	FWD. SEARCH	REV. SEARCH	PLAY PAUSE	REC PAUSE
CN2-①	7.9	5.1	7.5	5.3	5.3	5.3	7.9
②	7.9	5.1	7.5	5.3	5.3	5.4	8.0
CN3-							
①	0	0	0	0	0	0	0
②	0	0	0	0	0	0	0.1
③	0	0	0	0	0	0.1	0.1
CN4-							
①	0	0	0	0.1	0.1	0	0
②	4.3	4.2	4.3	4.2	4.2	4.2	4.3
③	2.0	1.8	1.8	1.7	1.7	1.6	1.6
CN5-							
①	0	0	0	0	0	0.1	0
②	0	0	0	0	0	0	0
③	7.9	7.9	7.7	7.9	8.0	8.0	7.9
CN11-							
①	5.0	0	0.1	0	0	0	0
②	5.0	0.1	0.1	0	0	5.0	5.0
③	0	5.0	5.1	4.9	0	5.0	5.0
④	0	0	0.1	0	0	0	0
CN12-							
①	2.4	0.1	0.1	2.5	0	2.3	0.2
②	0	0	0	0.1	0.1	0	0
③	0.1	0.1	0	0.1	0.1	0.1	0
CN13-							
①	0	0.1	0.1	0	0	0	0
②	0	0.1	0	0	0	0.1	0
CN14-							
①	0	0	0	0	0.1	0	0.1
②	0	0	0.1	0	0	0.1	0.1
③	0.1	2.2	2.2	5.8	0.1	1.8	0
④	0	0.1	0	0.1	0	0.1	0
⑤	0	0	0.1	0.1	6.3	0.1	0.1

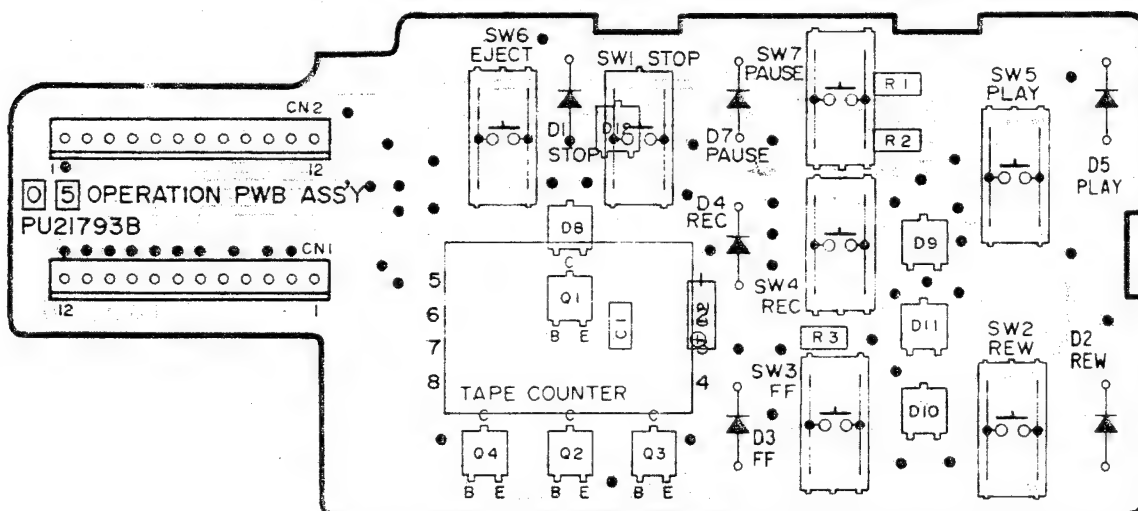
**0 8 Verbindungsplatte  
Junction PWB**



**0 6 Löschkopfplatte  
Full erase head PWB**



**0 5 Tastenplatte  
Operation PWB**

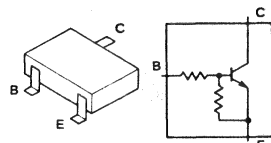


# Mechaniksteuerung Schaltbild Mechacon circuit diagram

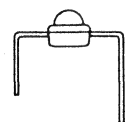
MCM1053



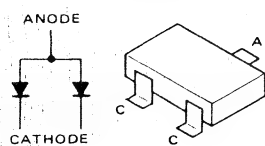
DTC114YK



GL-1HD202



MA151WA



NOTES: Unless otherwise specified.

1. All resistance values are in ohms.
2. All inductance values are in H.
3. All capacitance values are in  $\mu$ F.

: Chip capacitor

: Electrolytic capacitor

: Non-polar capacitor

: Tantalum capacitor

: Polypropylene capacitor

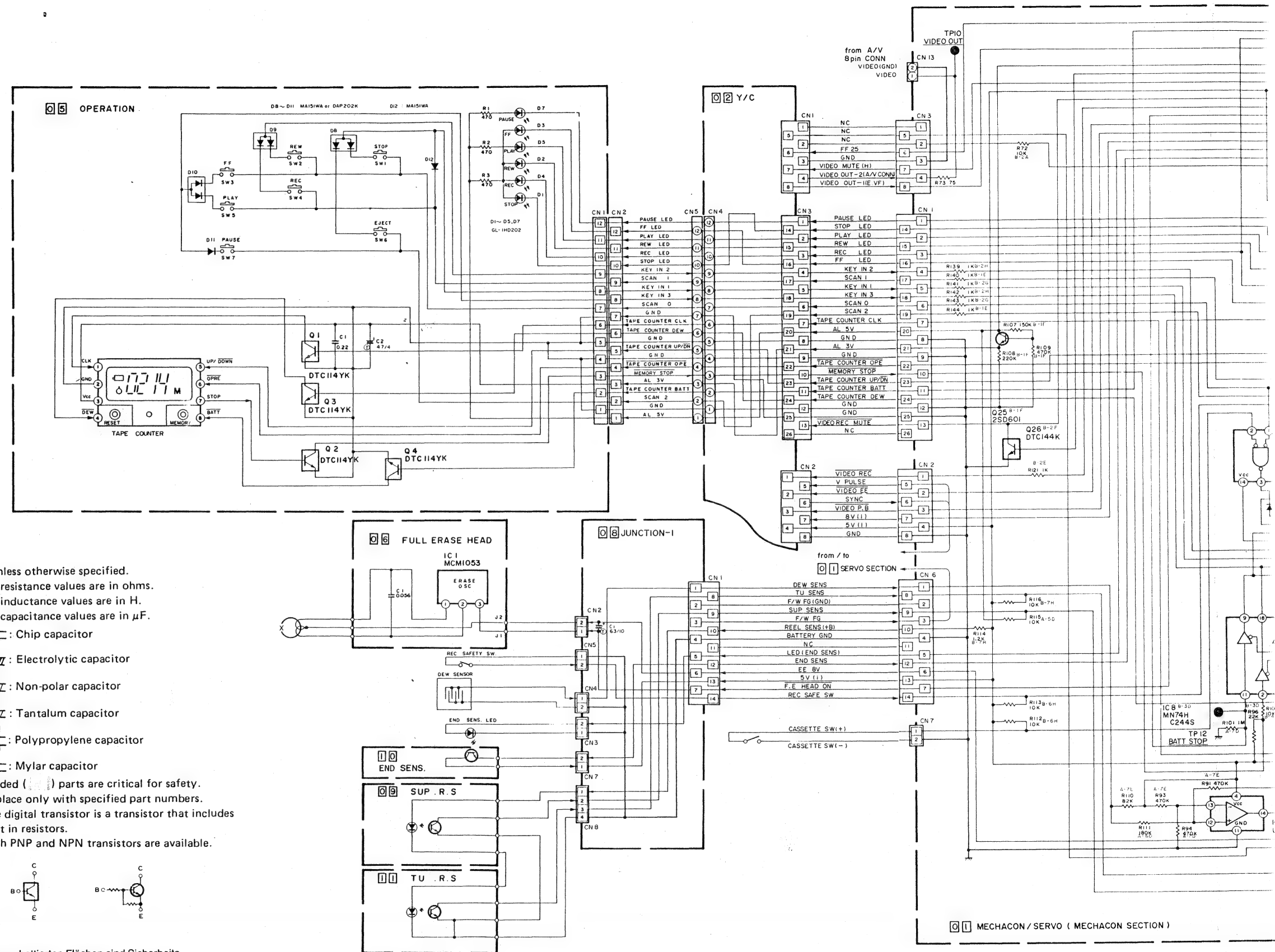
: Mylar capacitor

4. Shaded ( ) parts are critical for safety. Replace only with specified part numbers.
  5. The digital transistor is a transistor that includes built in resistors.
- Both PNP and NPN transistors are available.

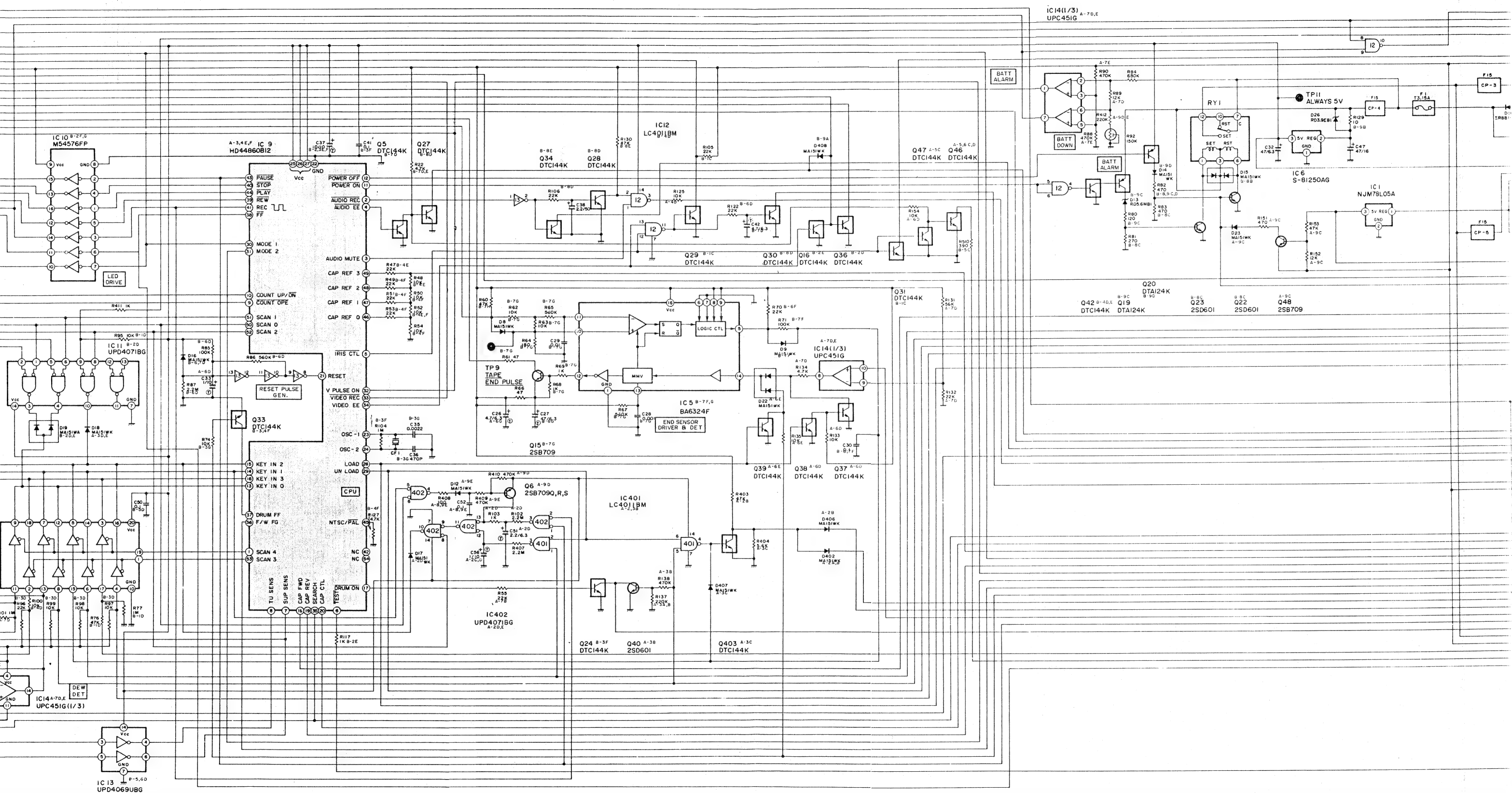


Hinweis:

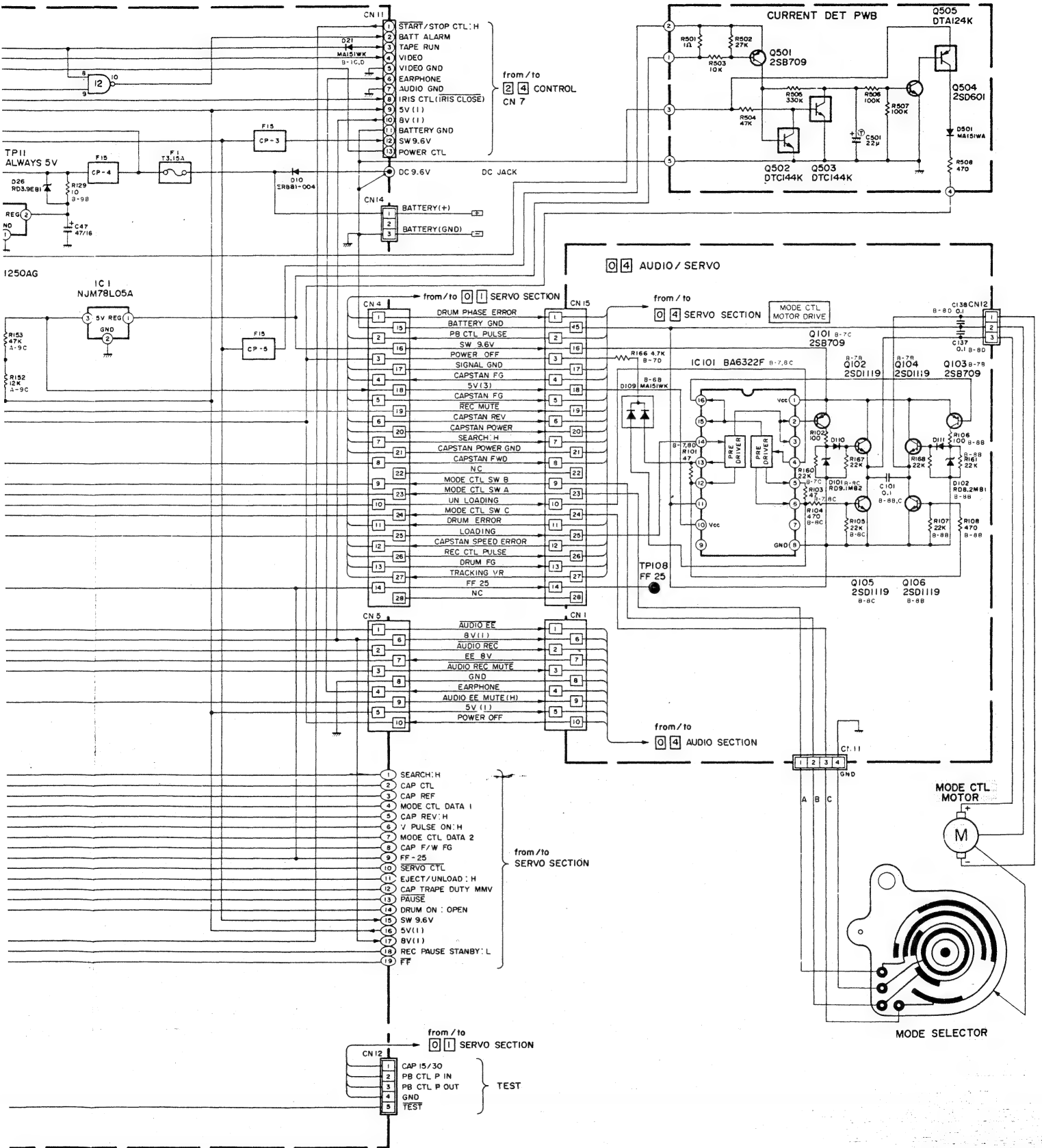
Bauteile in den schattierten Flächen sind Sicherheitsbauteile! Nur gegen Original-Ersatzteile wechseln!

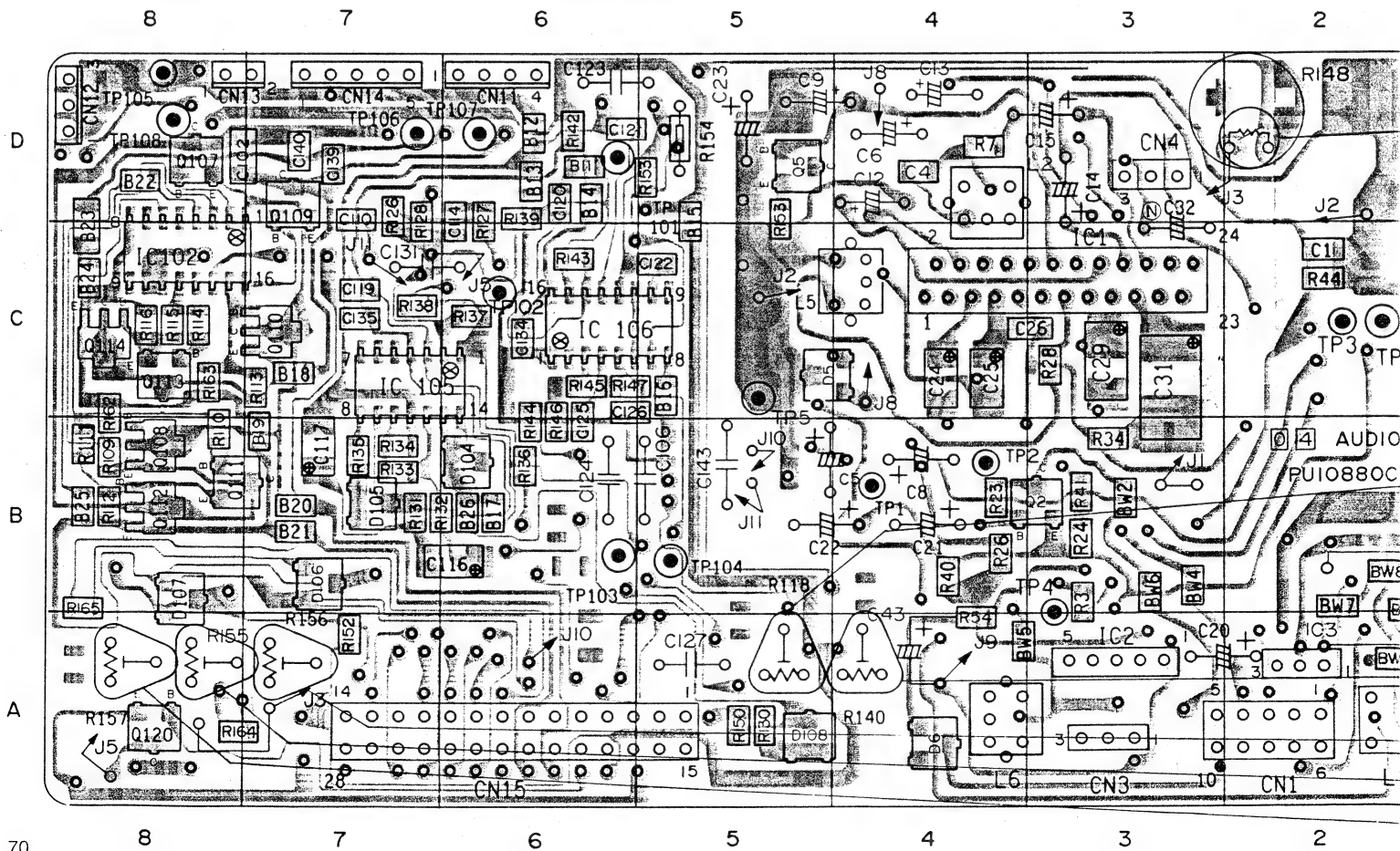
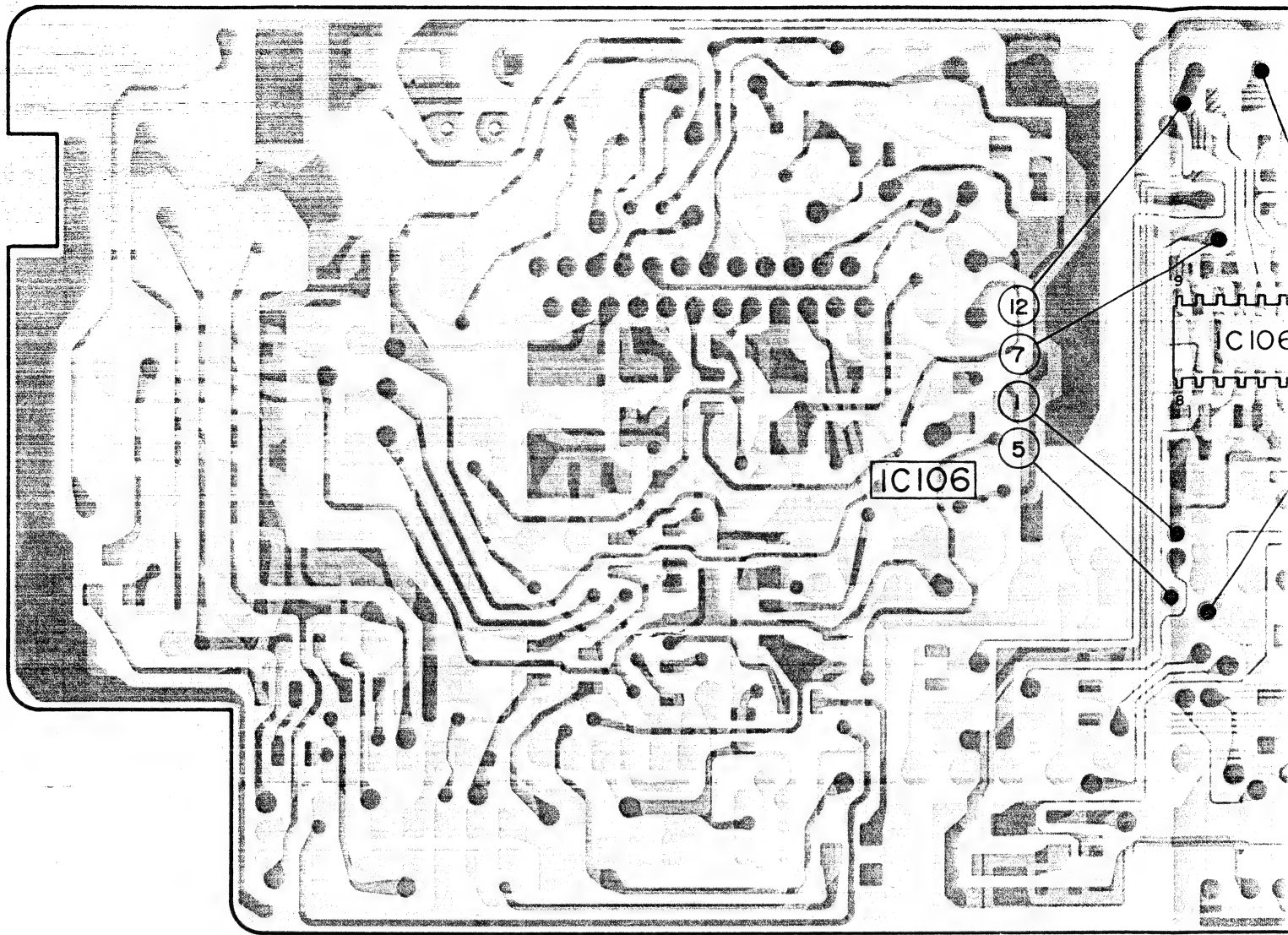




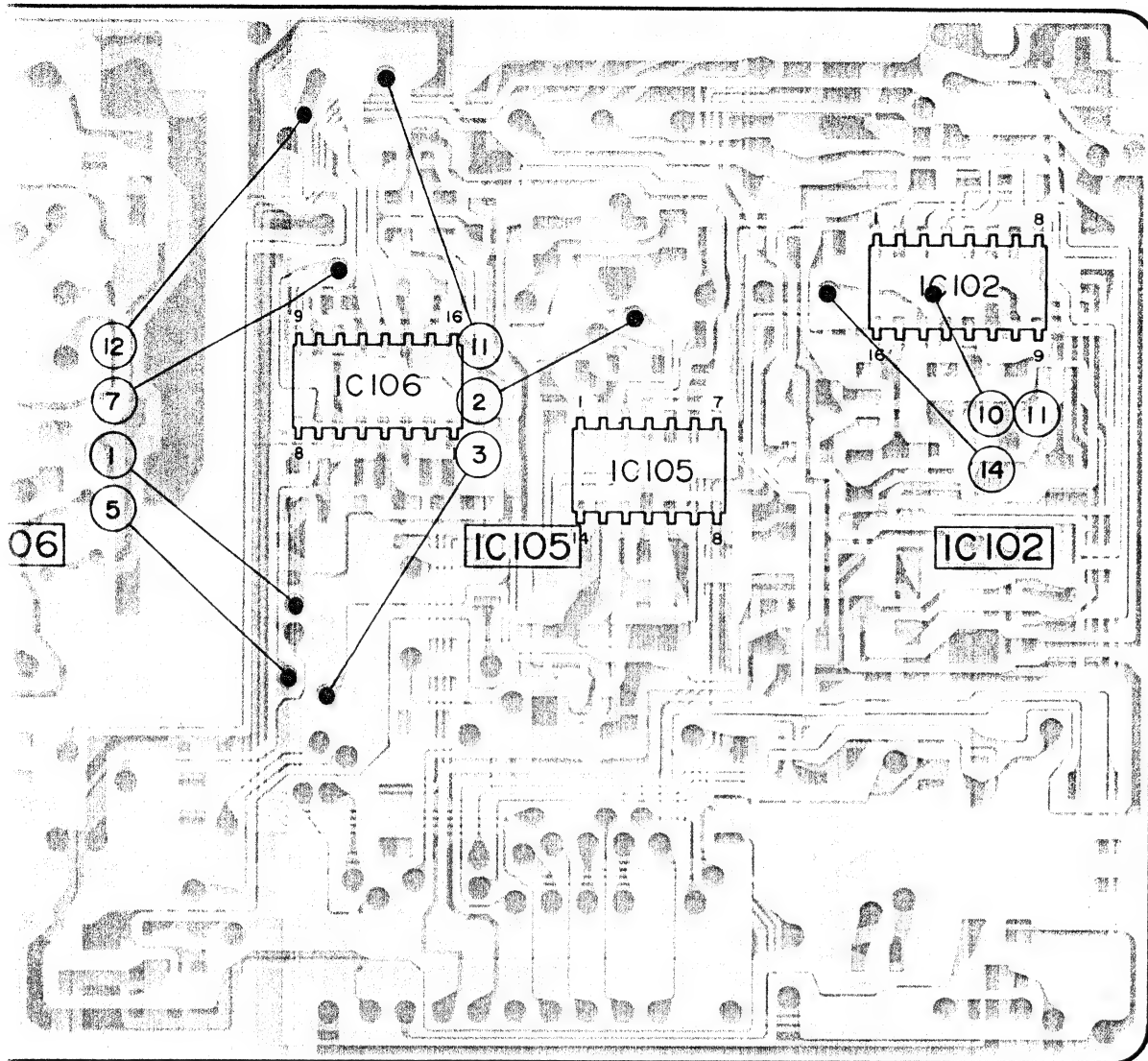


## Mechaniksteuerung Schaltbild Mechacon circuit diagram





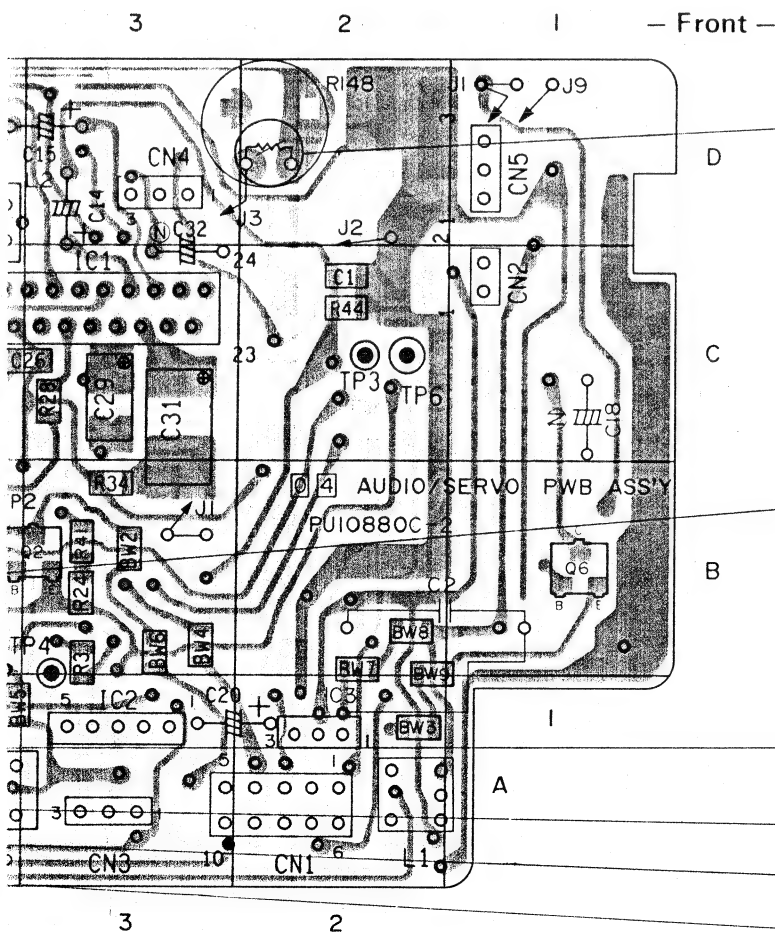
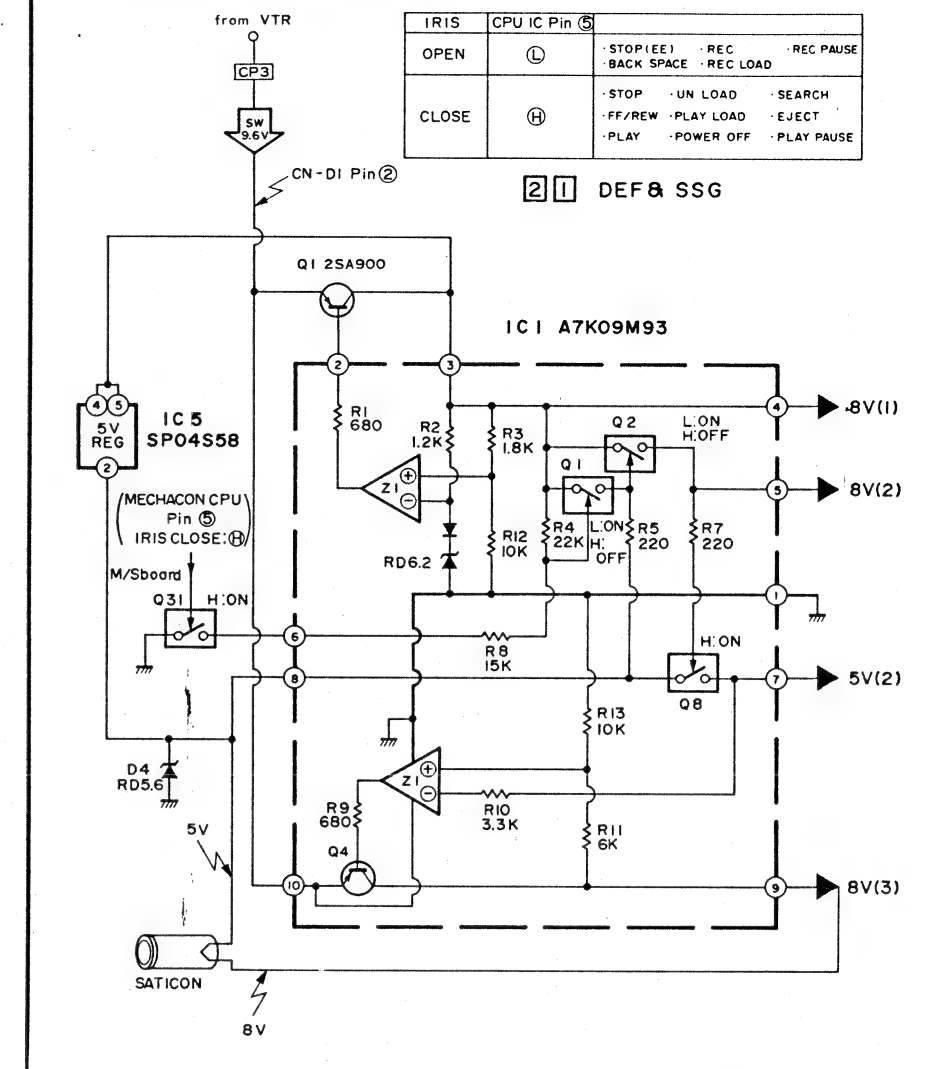




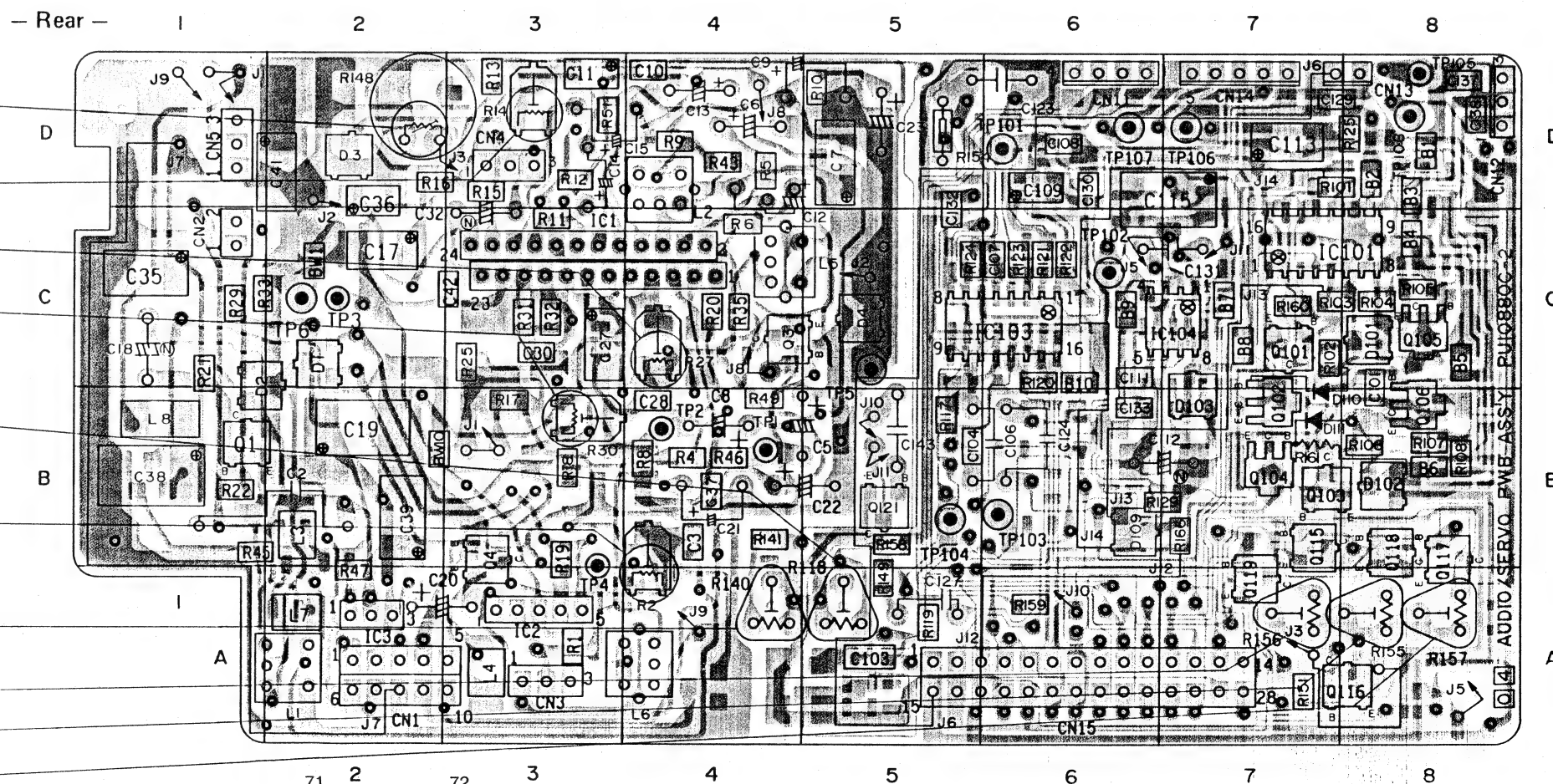
0 4 (Audio)-Servoplatte (IC-Anschlüsse)  
(Audio)-Servo PWB (IC-pin tocation)

0 4 (Audio)-Servoplatte  
(Audio)-Servo PWB

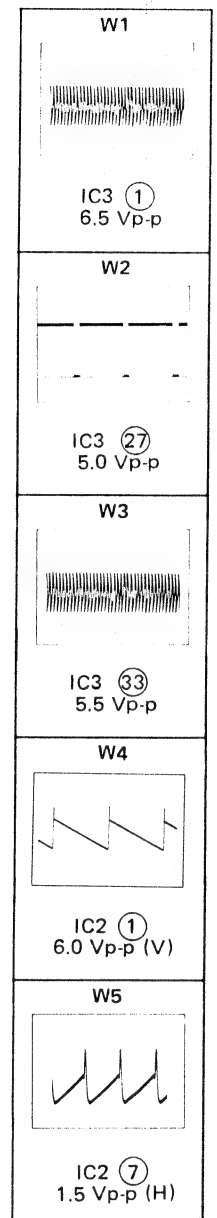
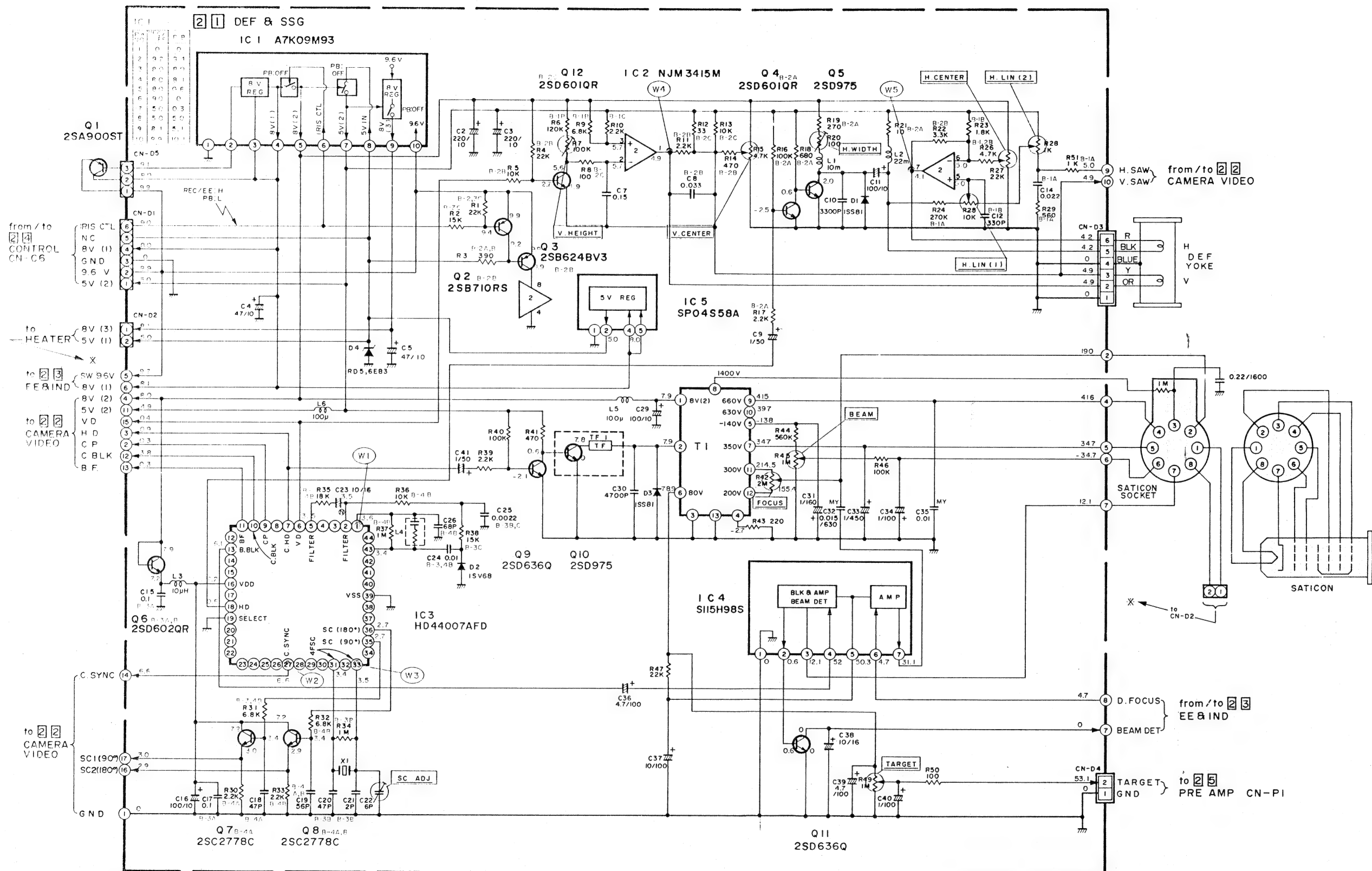
Funktion IC 1 (Ablenkplatte)  
Function IC 1 (Def + SSG PWB)



- R148 TRACKING VR
- R14 EE LEVEL
- R27 REC LEVEL
- R30 PB LEVEL
- R118 CAPSTAN SAMPLE POSITION
- R2 BIAS LEVEL
- R140 DRUM SAMPLE POSITION
- R156 SEARCH FF PHASE
- R155 SEARCH REW PHASE
- R157 TRACKING PRESET



# 2 1 Ablenkplatte Schaltbild DEF + SSG circuit diagram



## NOTES:

- parts are importantly related to safety.  
When replacing them, make sure to use specified parts.
- Voltage and waveform measurements.  
Voltage: Measured with digital voltmeter in DC range at iris closed.  
Waveform: With greyscale completely filling the picture area at auto-iris.

## Hinweis:

- Alle Gleichspannungen sind mit einem Digital-Voltmeter gemessen, bei geschlossener Blende.
- Oszillogramme: Grautreppe, Blende auf Automatik.
- Bauteile in schraffierten Flächen sind Sicherheits-Bauteile! Nur gegen Original-Ersatzteile wechseln!

## NOTES: Unless otherwise specified.

- All resistance values are in ohms.
  - All inductance values are in H.
  - All capacitance values are in  $\mu\text{F}$ .
- $\square$  : Chip capacitor  
 $\square$  : Electrolytic capacitor  
 $\square$  : Tantalum capacitor  
 $\square$  : Mylar capacitor  
 $\square$  : Non-polar capacitor  
 $\square$  : Polypropylene capacitor

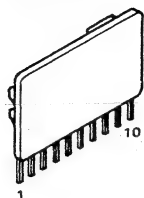




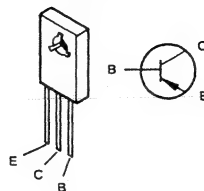
**2 1 Ablenkplatte  
DEF + SSG PWB**

C22  
SC ADJ

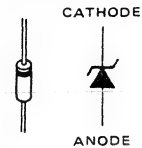
A7K09M93



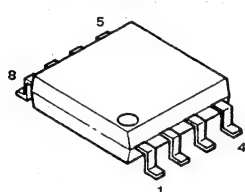
2SA900ST



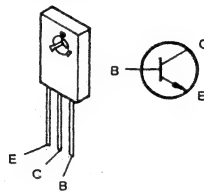
RD5.6EB3



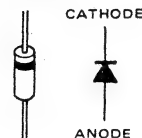
NJM3415M



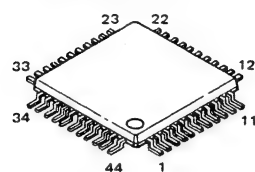
2SD975



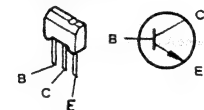
1SV68



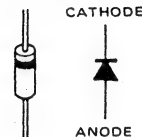
HD44007AFD



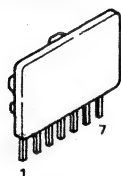
2SD636Q



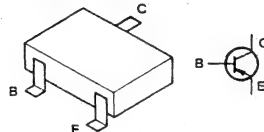
1SS81



S115H98S



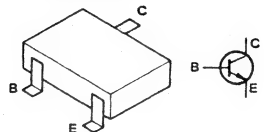
2SB624BV3  
2SB710RS

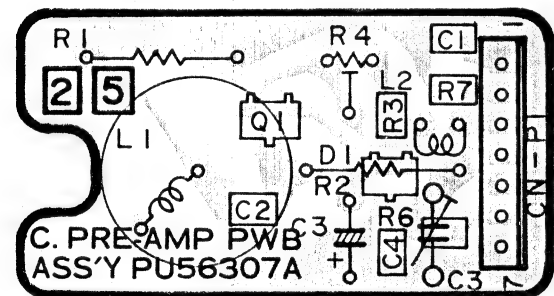
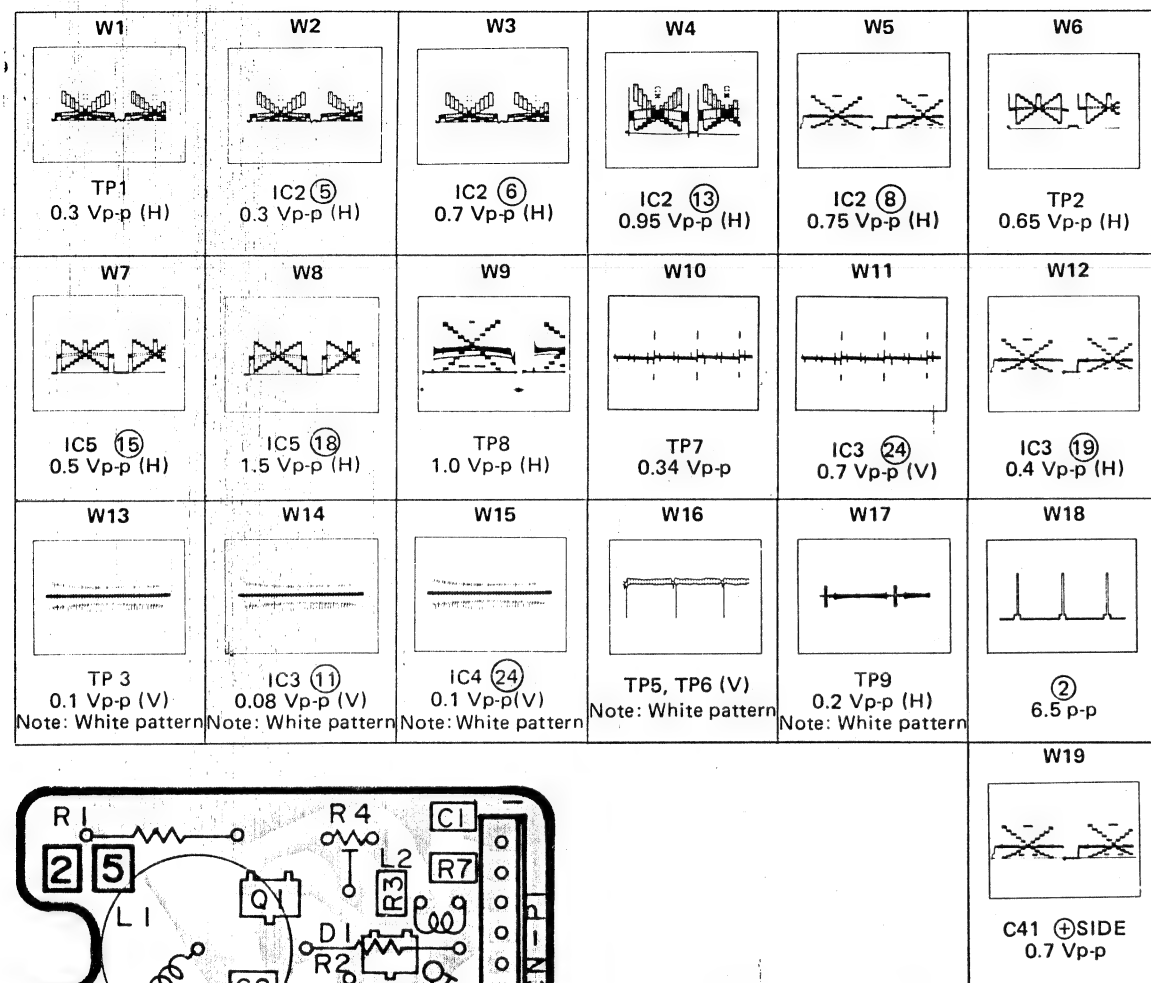


SP04S58A

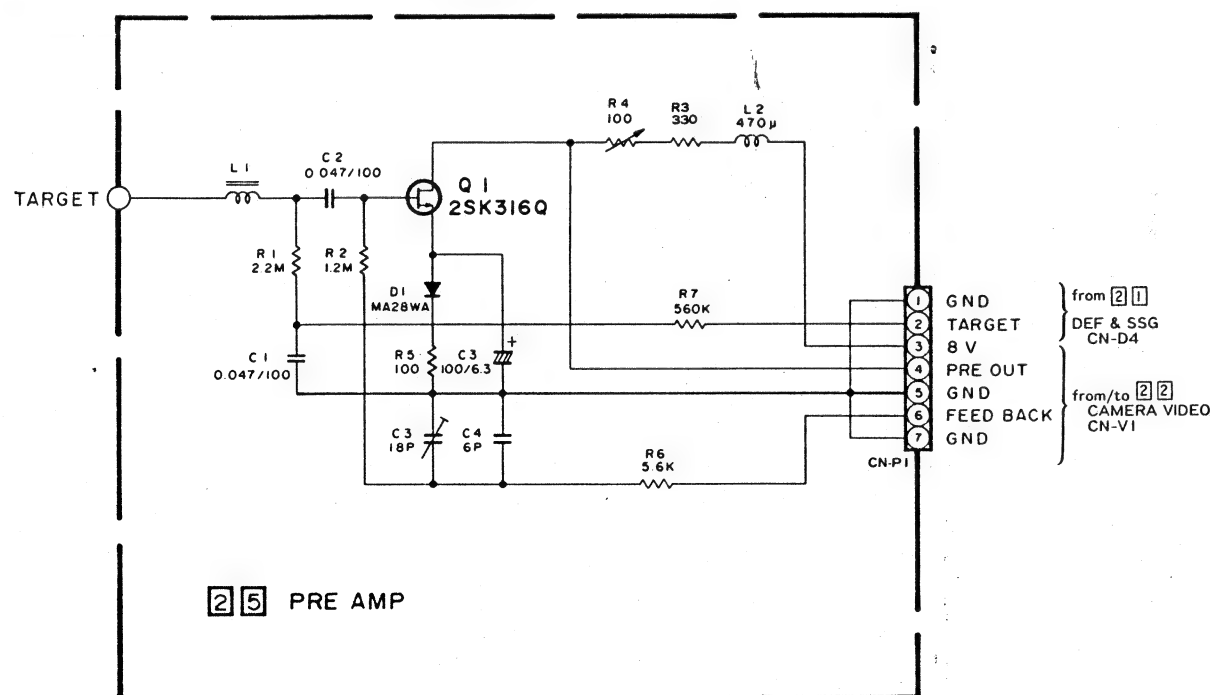


2SC2778C  
2SD601QR  
2SD602QR



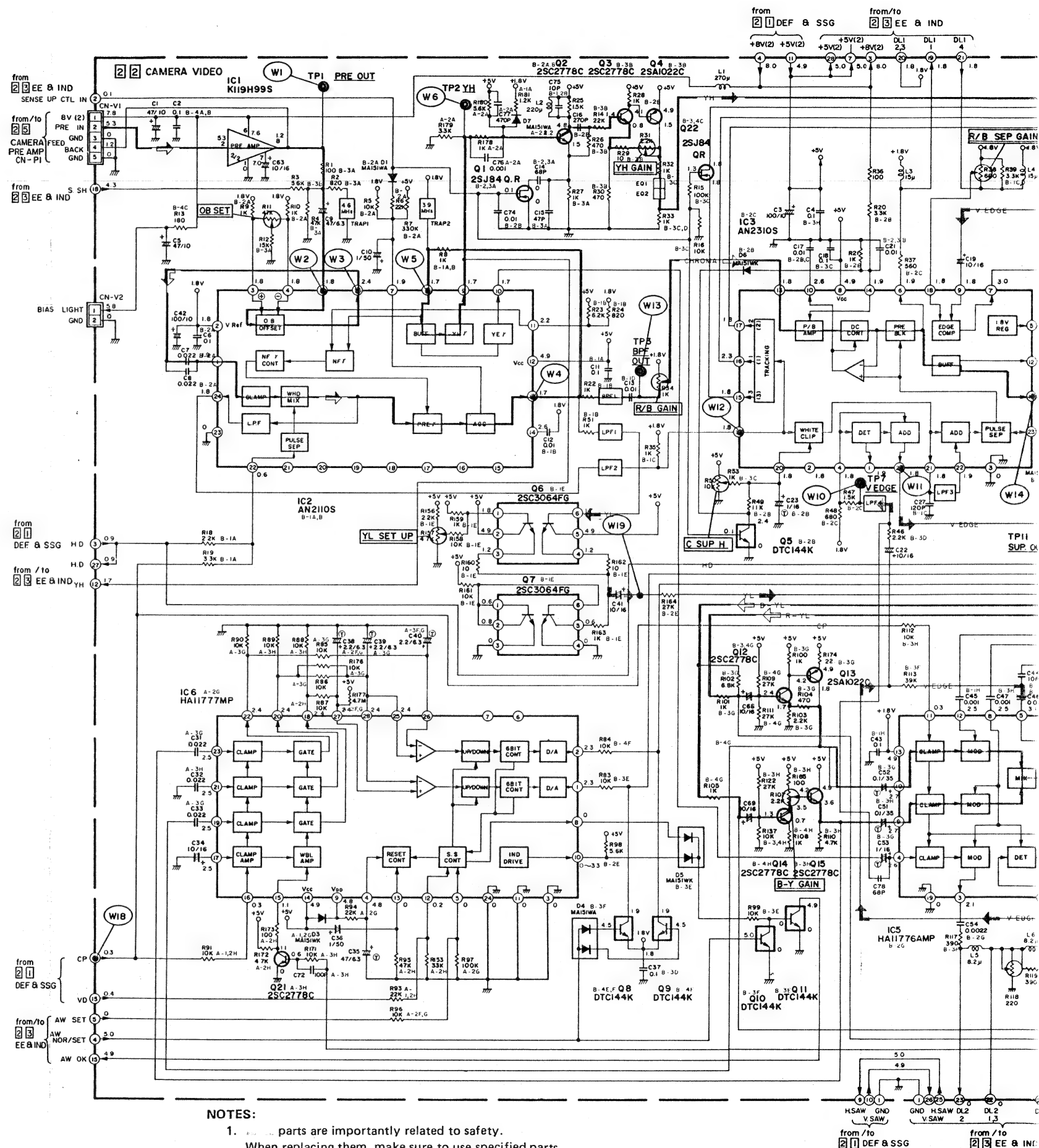


25 Vorverstärker  
Preamplifier



NOTES: Camera amp R4 and C3 are adjusted at the factory.  
Replace the entire camera pre-amp ass'y as a unit.  
Readjustment of R4 and C3 is not required, even after replacing the Saticon.

Hinweis:  
R4 und C3 sind fest eingestellt.  
Ein Abgleich ist nicht erforderlich.



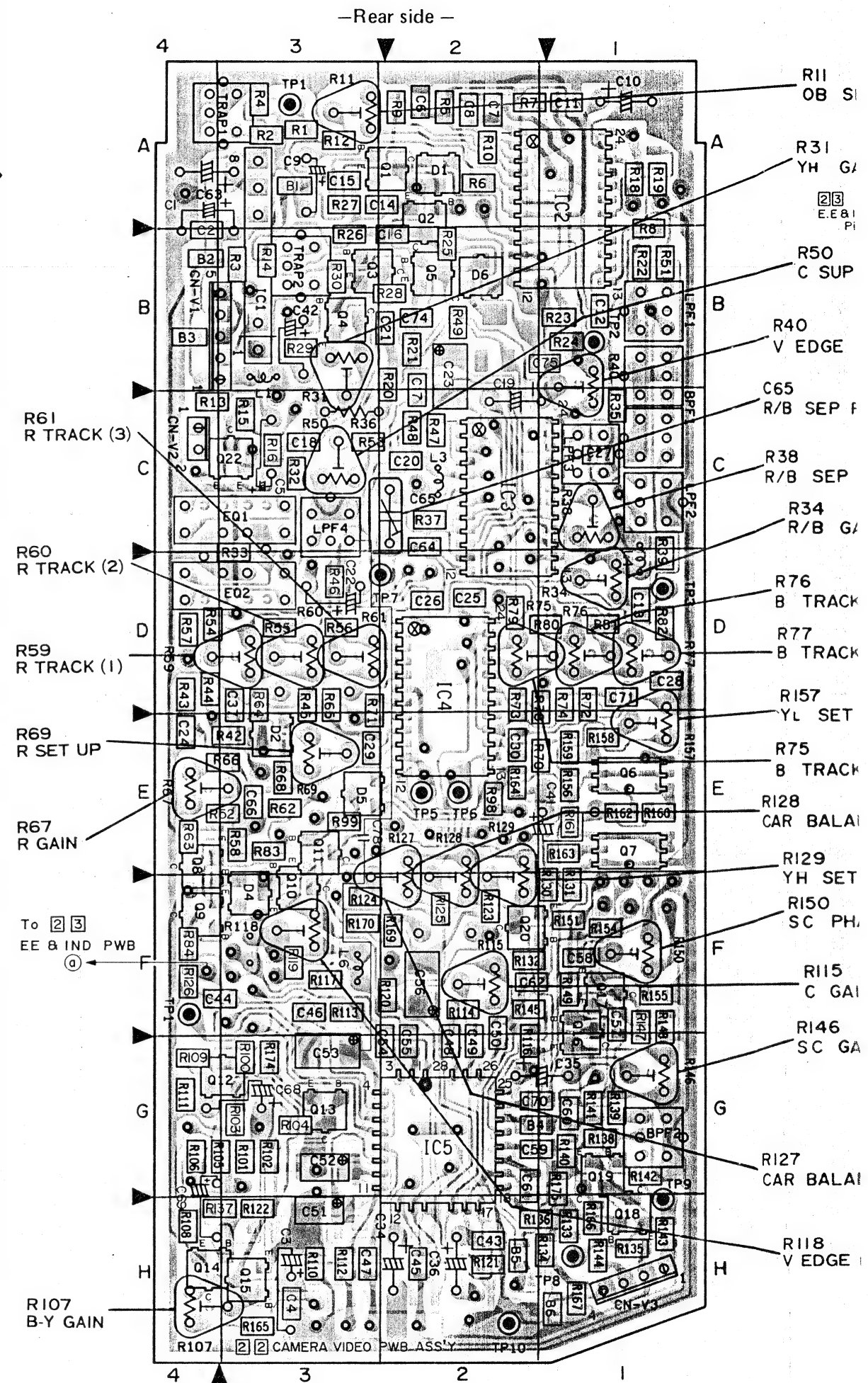
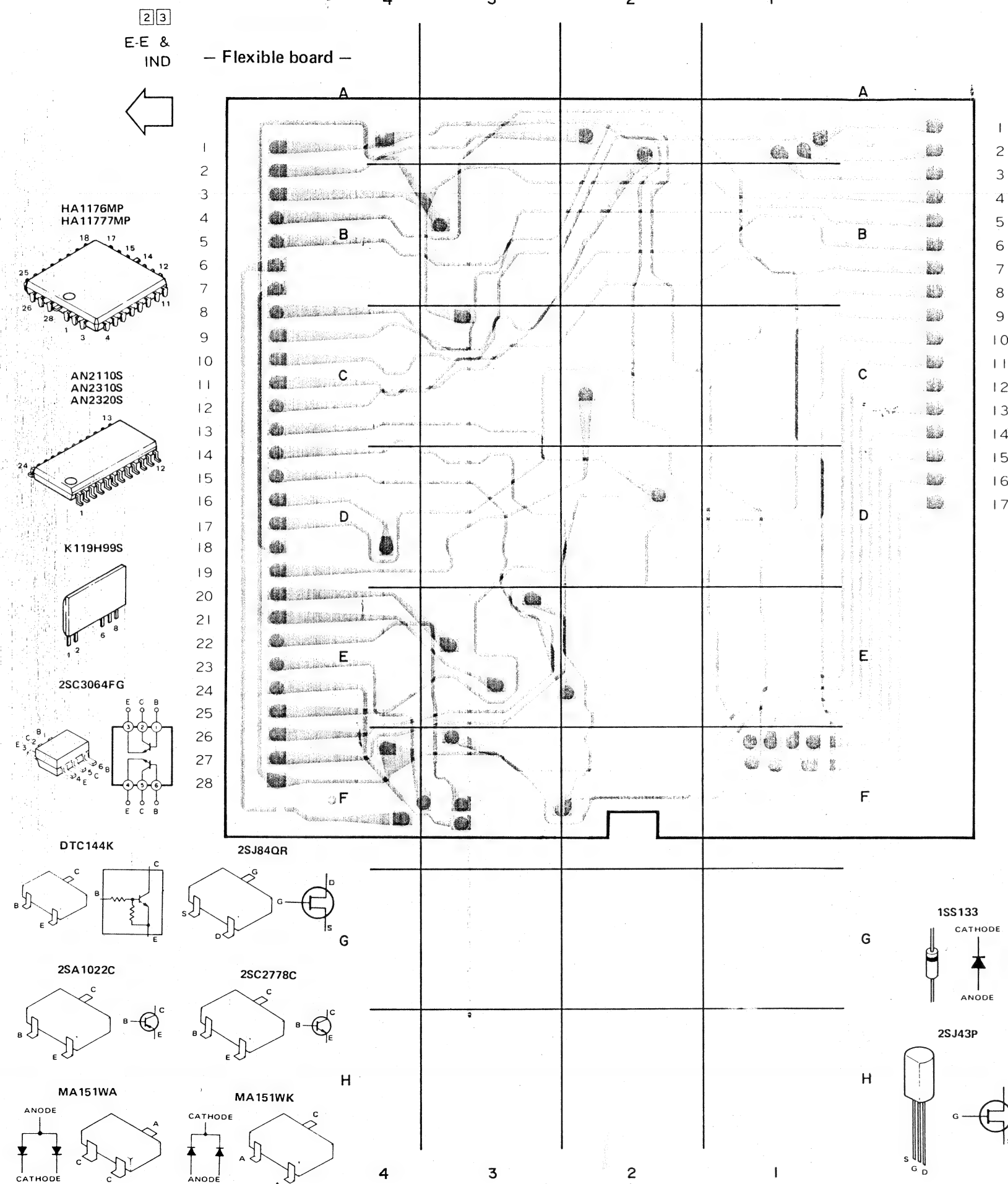


**2 2**



- Hinweis:**

- 79



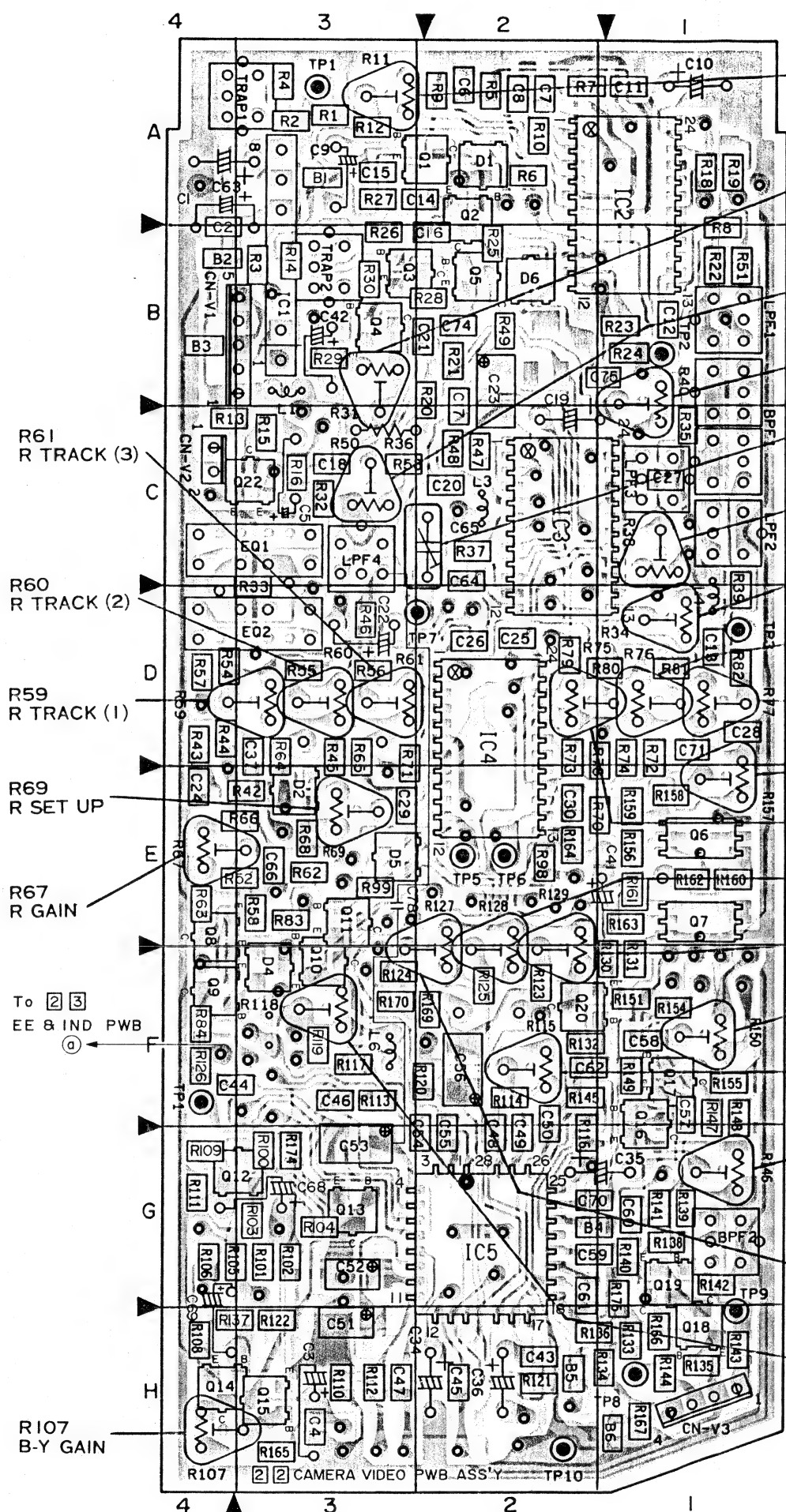


—Rear side—

—Front side—

2 1  
DEF &  
SSG

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17



R11  
OB SET

R31  
YH GAIN

2 3  
E.E & IND PWB  
Pin12

R50  
C SUP H

R40  
V EDGE GAIN

C65  
R/B SEP PHASE

R38  
R/B SEP GAIN

R34  
R/B GAIN

R76  
B TRACK (2)

R77  
B TRACK (3)

R157  
YL SET UP

R75  
B TRACK (1)

R128  
CAR BALANCE R

R129  
YH SET UP

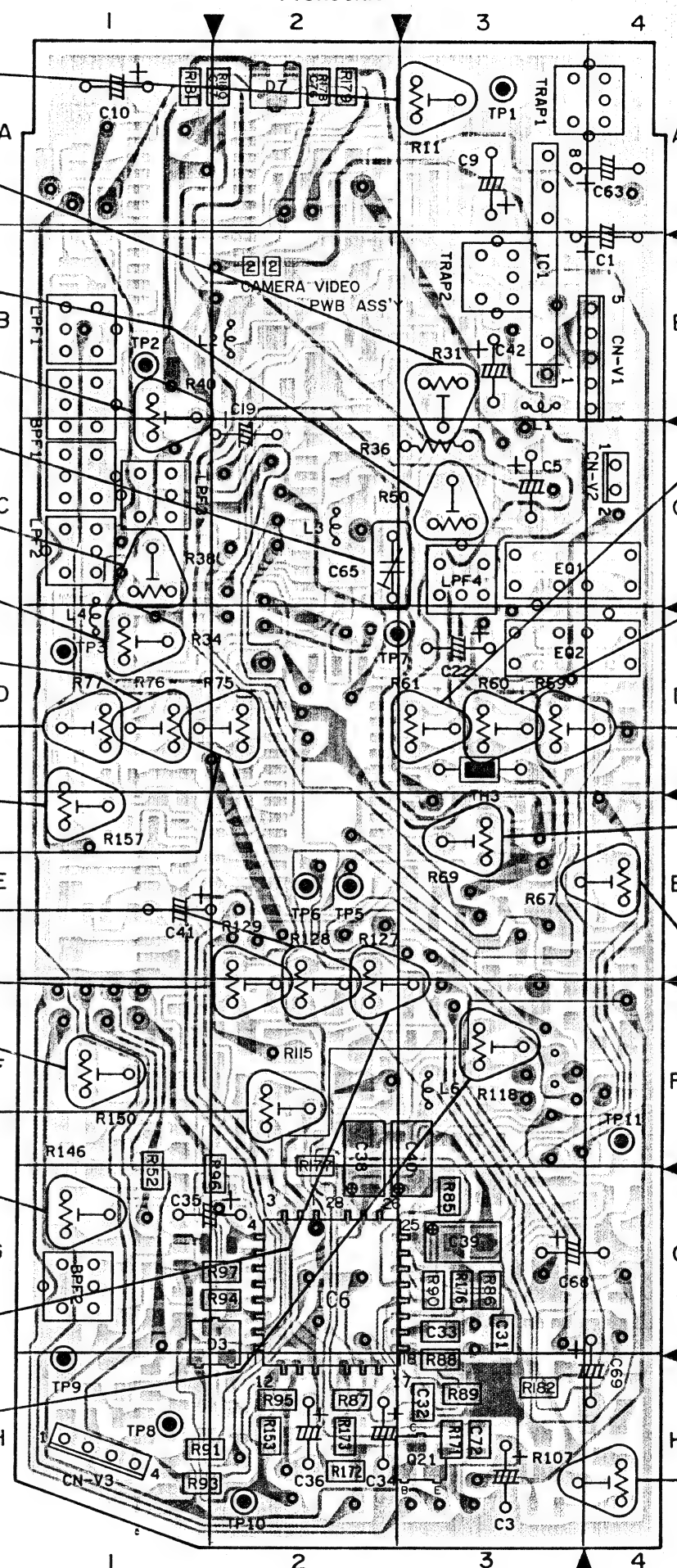
R150  
SC PHASE

R115  
C GAIN

R146  
SC GAIN

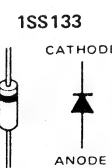
R127  
CAR BALANCE B

R118  
V EDGE BAL

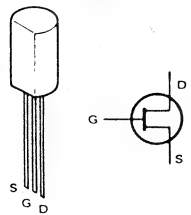


A  
B  
C  
D  
E  
F

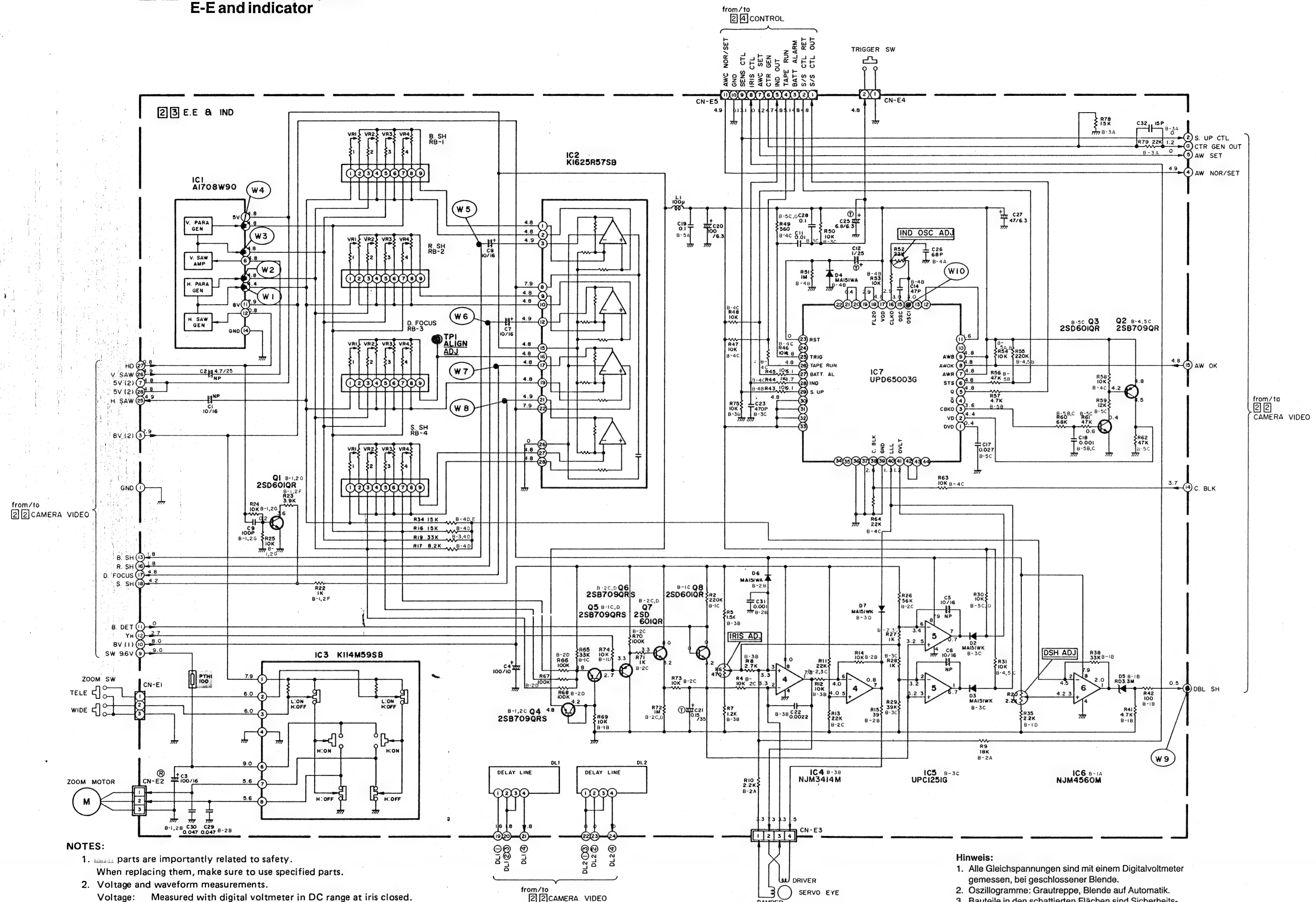
G  
H



2SJ43P



## 2 3 E-E und Anzeigenplatte E-E and indicator

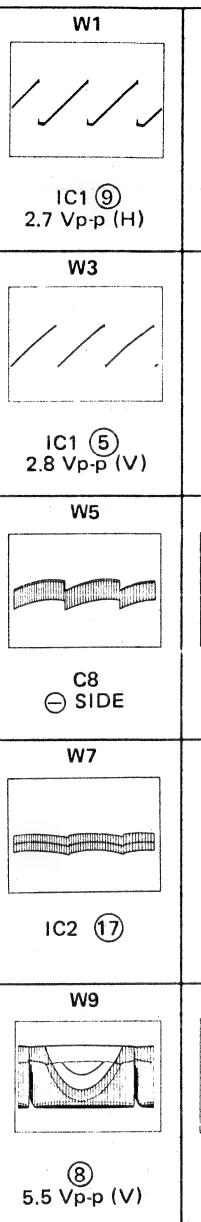


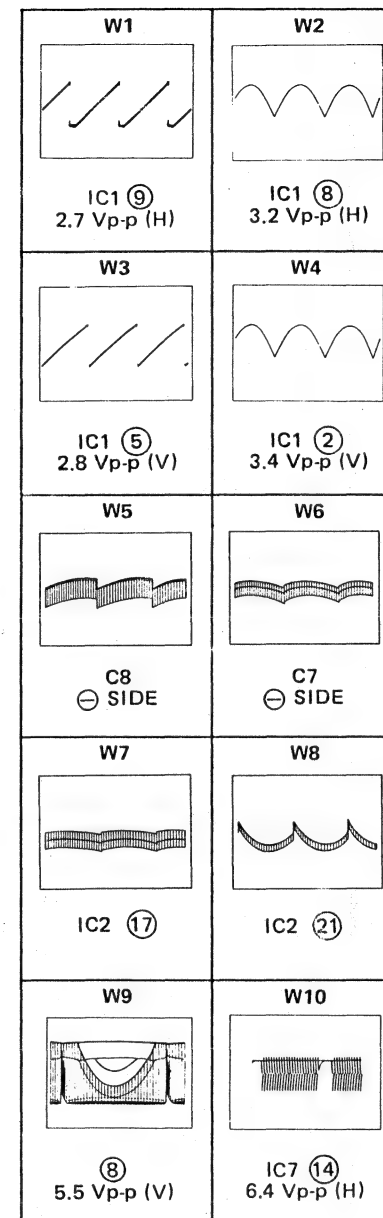
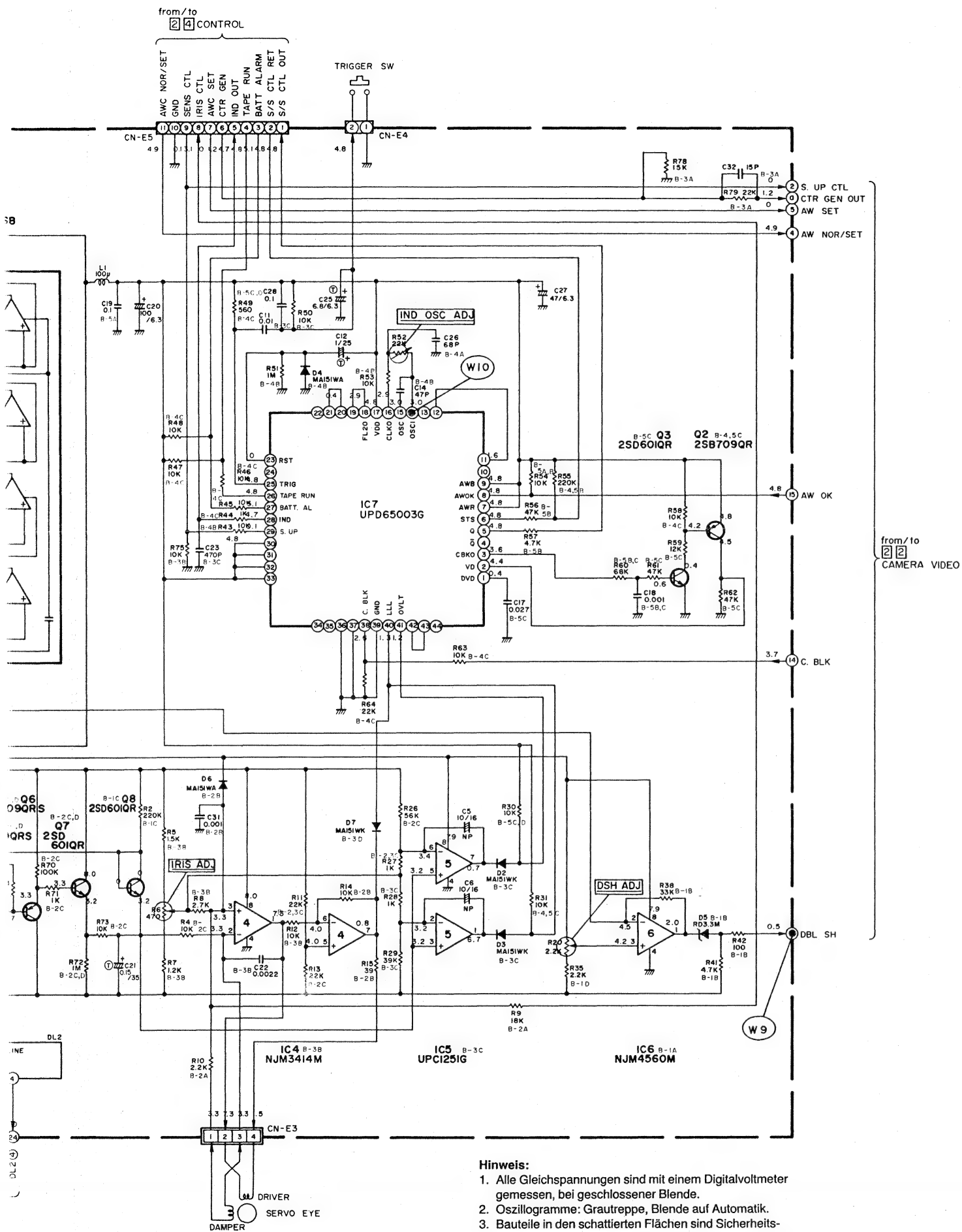
### NOTES:

1. **Parts** are importantly related to safety.  
When replacing them, make sure to use specified parts.
2. **Voltage and waveform measurements.**  
Voltage: Measured with digital voltmeter in DC range at iris closed.  
Waveform: With greyscale completely filling the picture area at auto-iris.

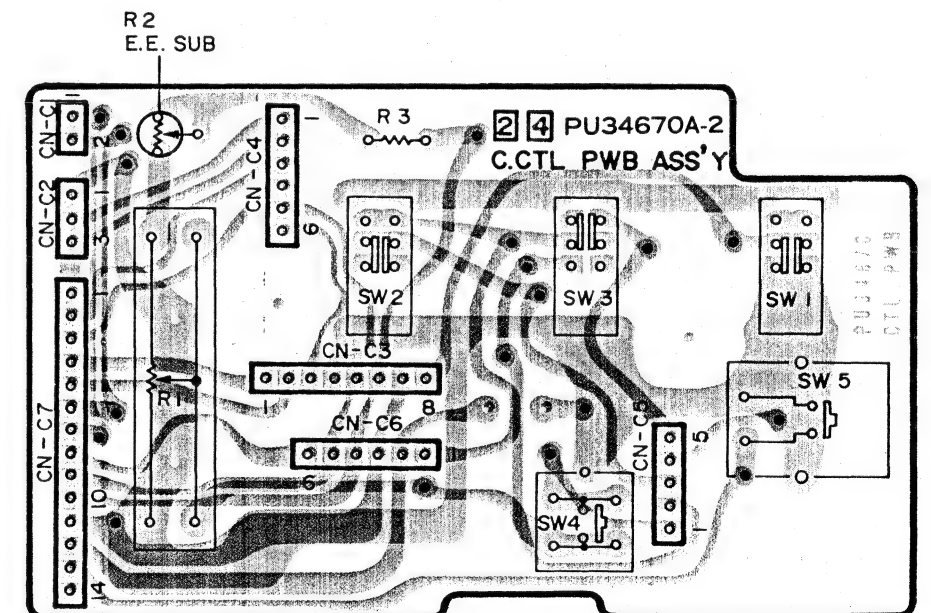
### Hinweis:

1. Alle Gleichspannungen sind mit einem Digitalvoltmeter gemessen, bei geschlossener Blende.
2. Oszillogramme: Grautreppe, Blende auf Automatik.
3. Bauteile in den schattierten Flächen sind Sicherheitsbauteile! Nur gegen Original-Ersatzteile auswechseln!



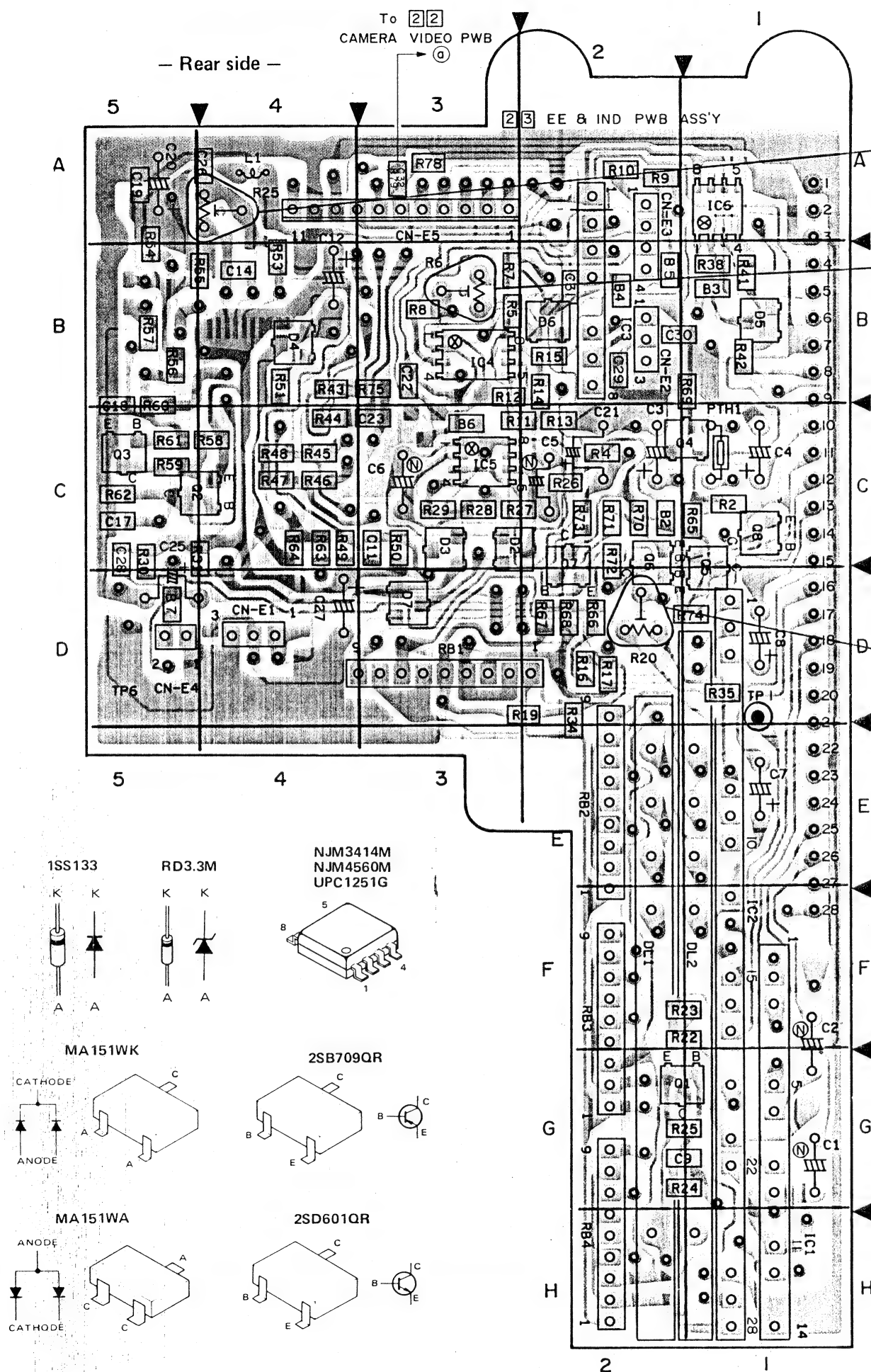


## 2 4 Camera Schalterplatte Camera control PWB





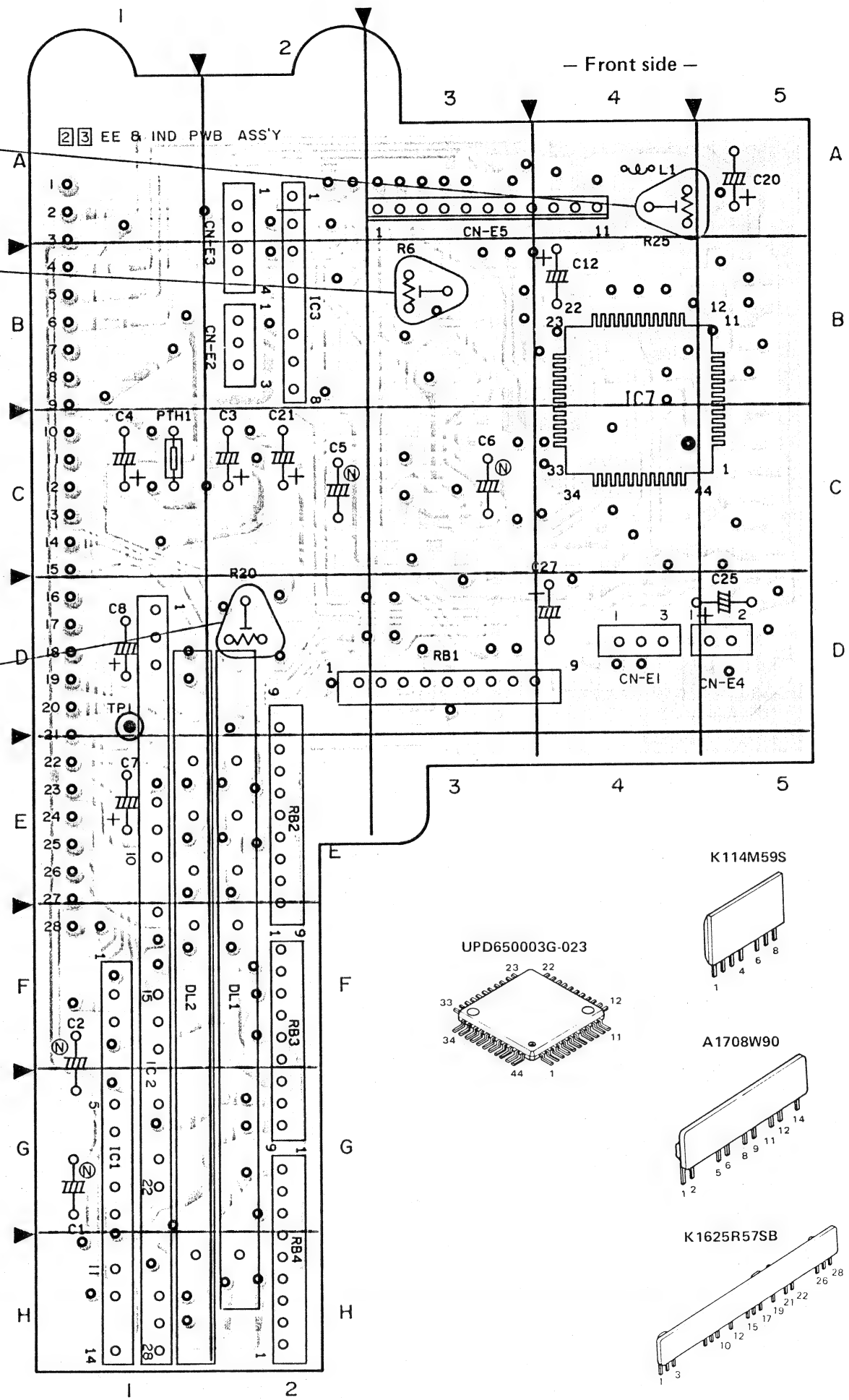
**2 3 E-E und Anzeigeplatte**  
**E-E and indicator PWB**

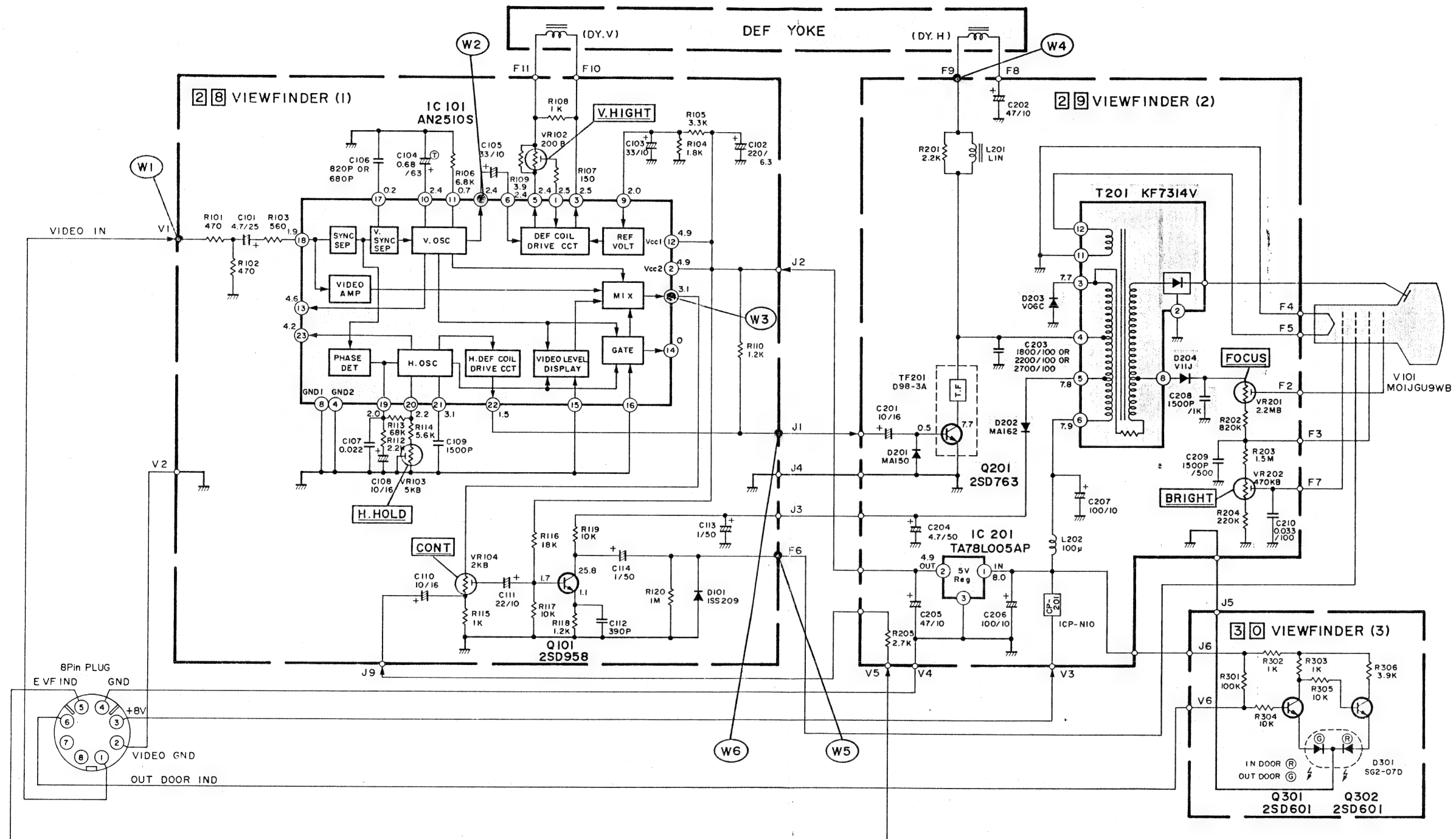


R52  
IND OSC ADJ

R6  
IRIS ADJ

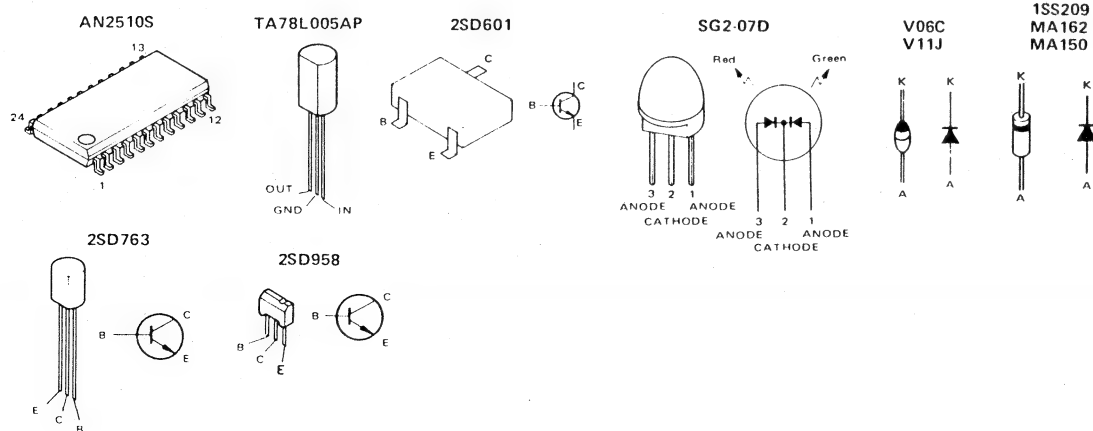
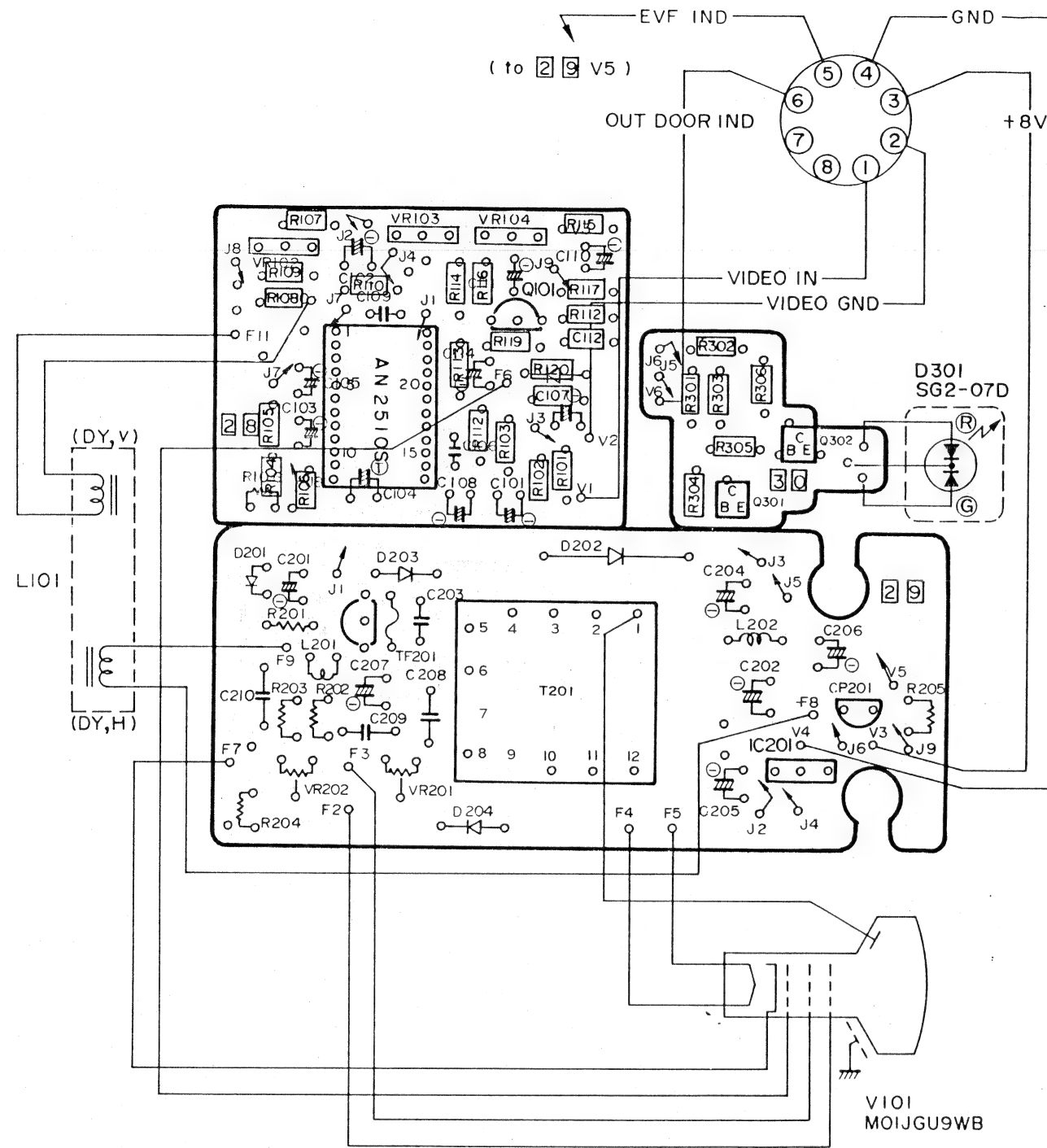
R20  
DSH ADJ



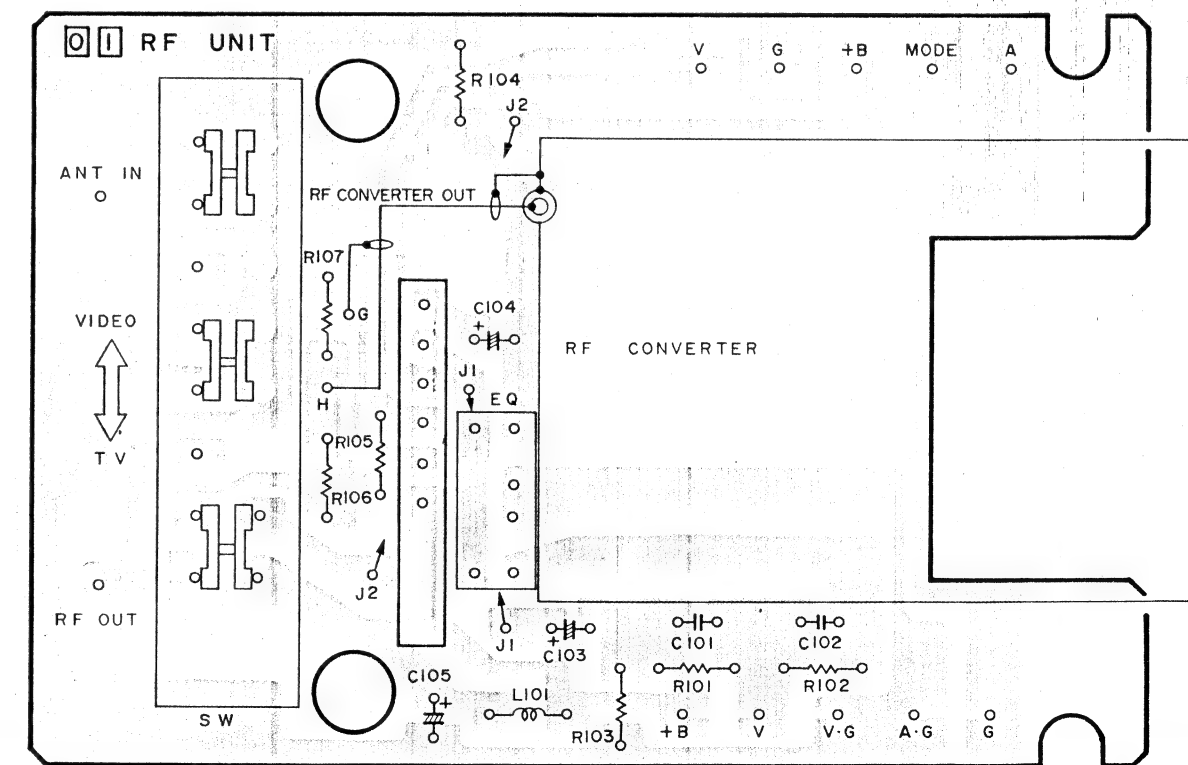
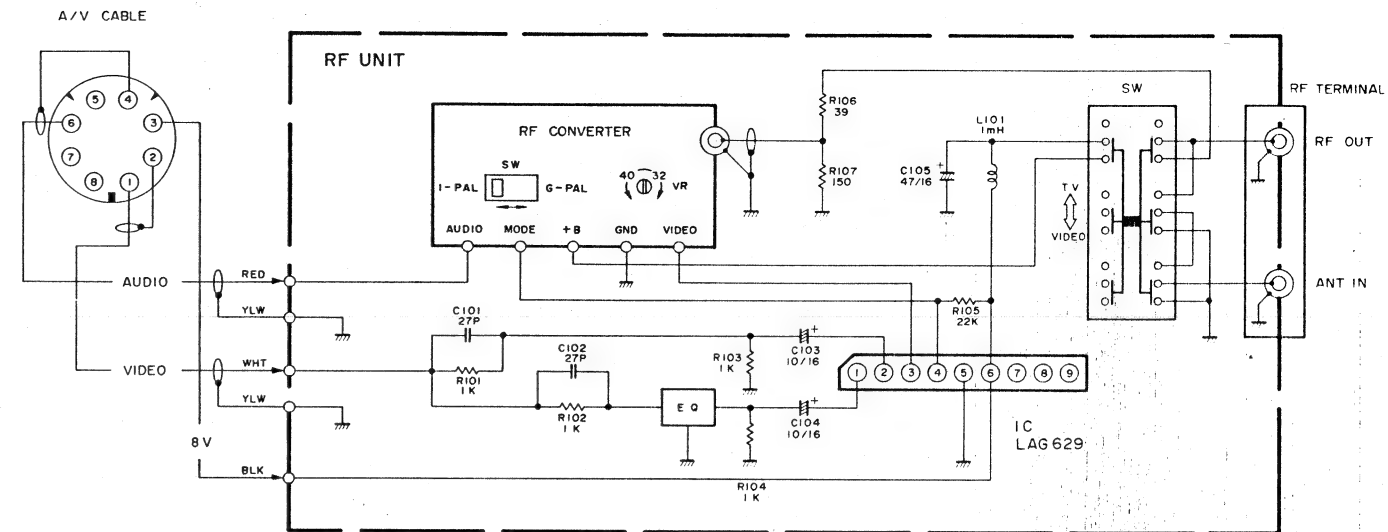


W1	
V1	2.0 Vp-p
W2	
IC101 (7)	3.0 Vp-p
W3	
IC101 (24)	3.0 Vp-p
W4	
F9	68 Vp-p
W5	
F6	17 Vp-p
W6	
J1	2.0 Vp-p





**HF-Modulator  
RF-Unit**



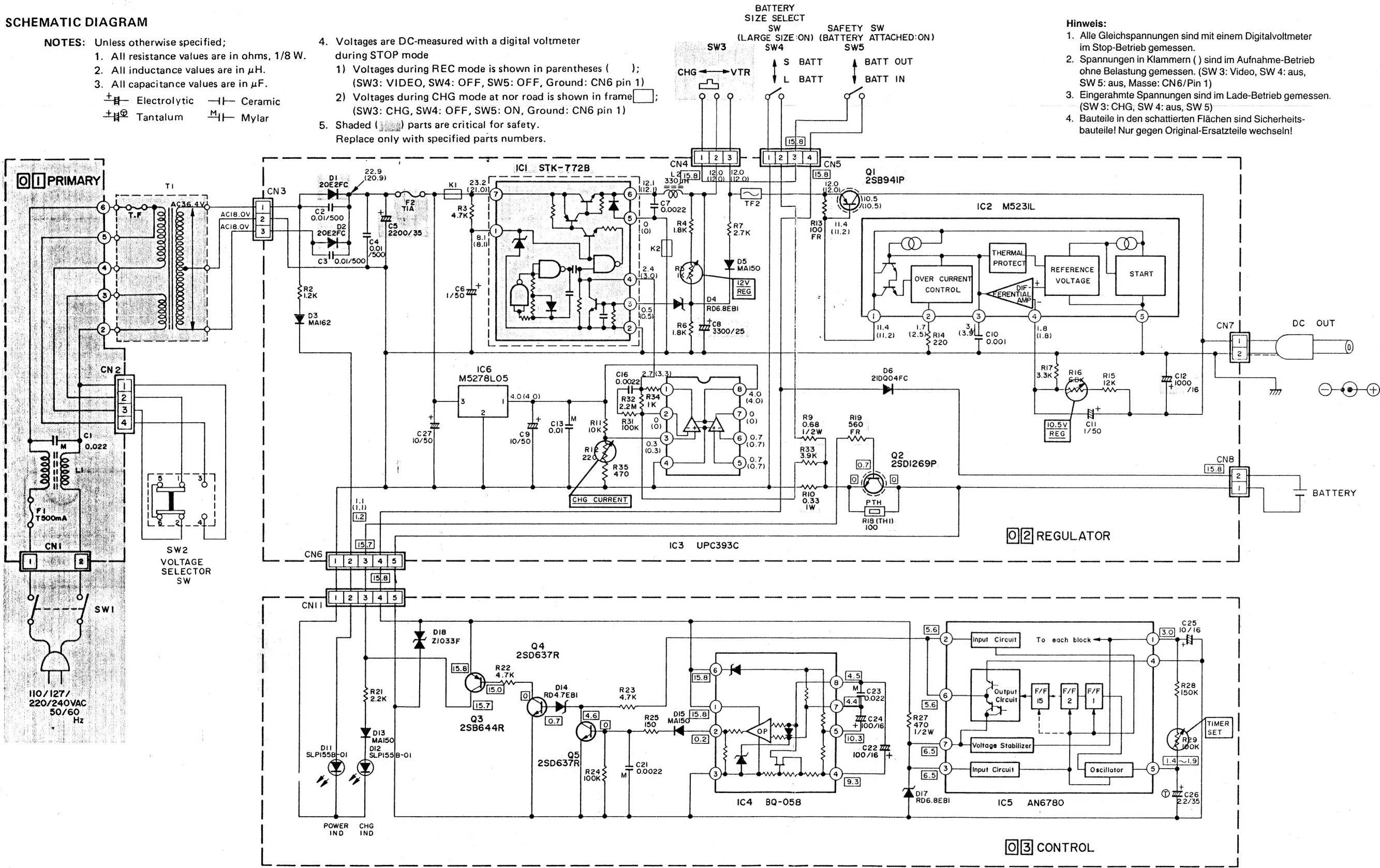
**Netz- und Ladegerät**  
**AC power adaptor and battery charger**

**SCHEMATIC DIAGRAM**

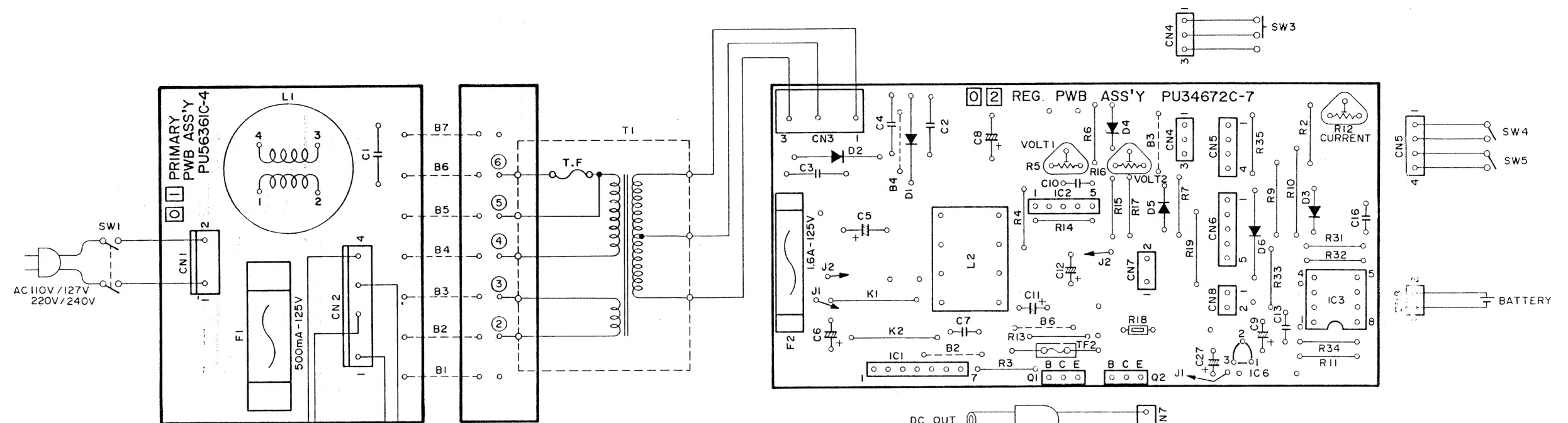
- NOTES:** Unless otherwise specified;
1. All resistance values are in ohms, 1/8 W.
  2. All inductance values are in  $\mu\text{H}$ .
  3. All capacitance values are in  $\mu\text{F}$ .
- Electrolytic   
 Ceramic  
 Tantalum   
 Mylar

4. Voltages are DC-measured with a digital voltmeter during STOP mode
- 1) Voltages during REC mode is shown in parentheses ( );  
(SW3: VIDEO, SW4: OFF, SW5: OFF, Ground: CN6 pin 1)
- 2) Voltages during CHG mode at nor road is shown in frame ;  
(SW3: CHG, SW4: OFF, SW5: ON, Ground: CN6 pin 1)
5. Shaded ( ) parts are critical for safety.  
Replace only with specified parts numbers.

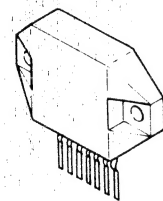
- Hinweis:**
1. Alle Gleichspannungen sind mit einem Digitalvoltmeter im Stop-Betrieb gemessen.
  2. Spannungen in Klammern ( ) sind im Aufnahme-Betrieb ohne Belastung gemessen. (SW 3: Video, SW 4: aus, SW 5: aus, Masse: CN6/Pin 1)
  3. Eingehramte Spannungen sind im Lade-Betrieb gemessen. (SW 3: CHG, SW 4: aus, SW 5)
  4. Bauteile in den schattierten Flächen sind Sicherheitsbauteile! Nur gegen Original-Ersatzteile wechseln!



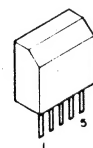
# Netz- und Ladegerät AC power adaptor and battery charger



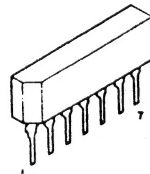
IC1 : STK-772B



IC2: M5231L



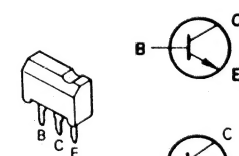
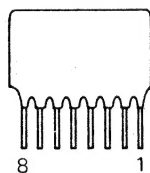
IC5: AN6780



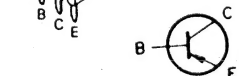
IC3: UPC393C



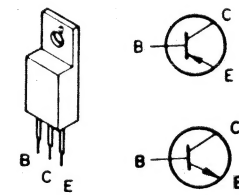
IC4 : BQ-058



Q3: 2SB644R



Q4, Q5: 2SD637R

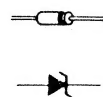


Q1: 2SB941P

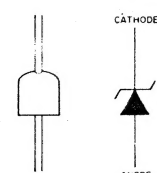


Q2: 2SD1269P

D4, D17 : RD6.8EB1  
D14 : RD4.7EB1



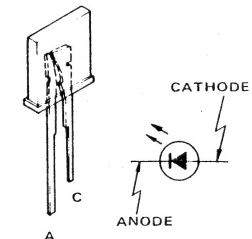
D18 : Z1033F



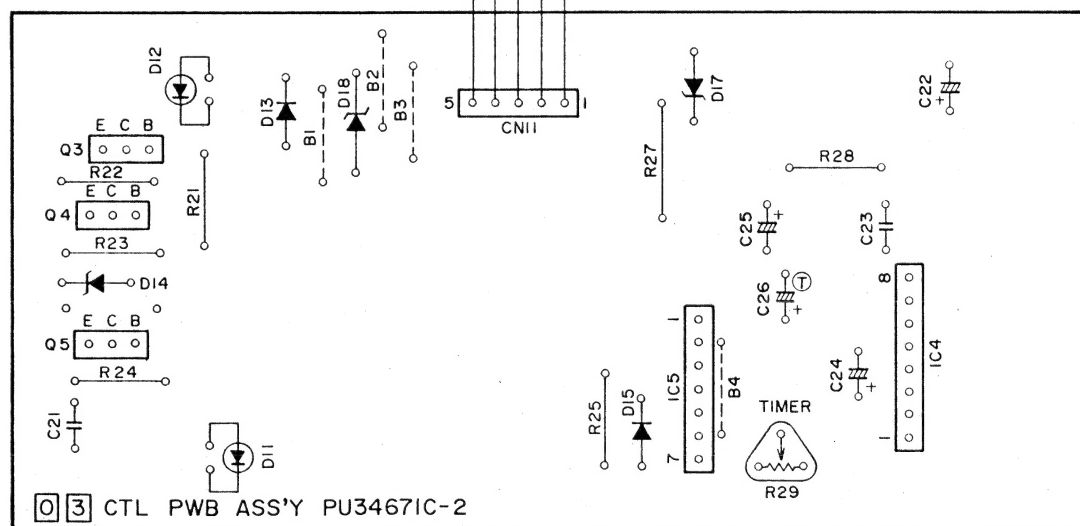
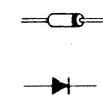
IC6 : M5278L05

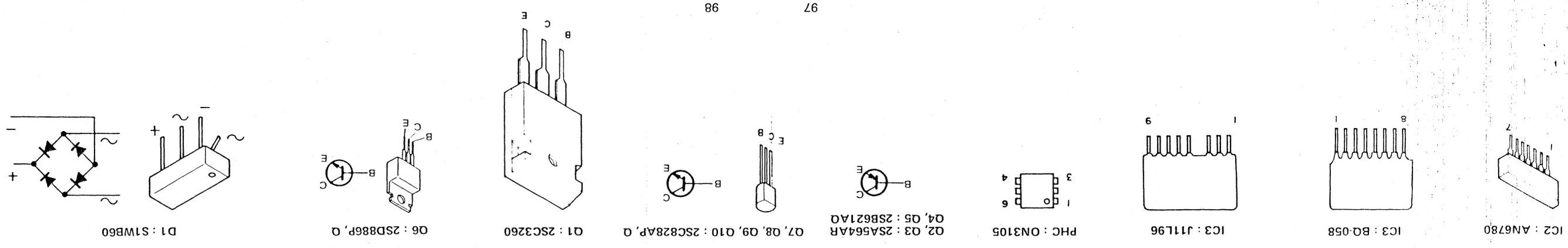
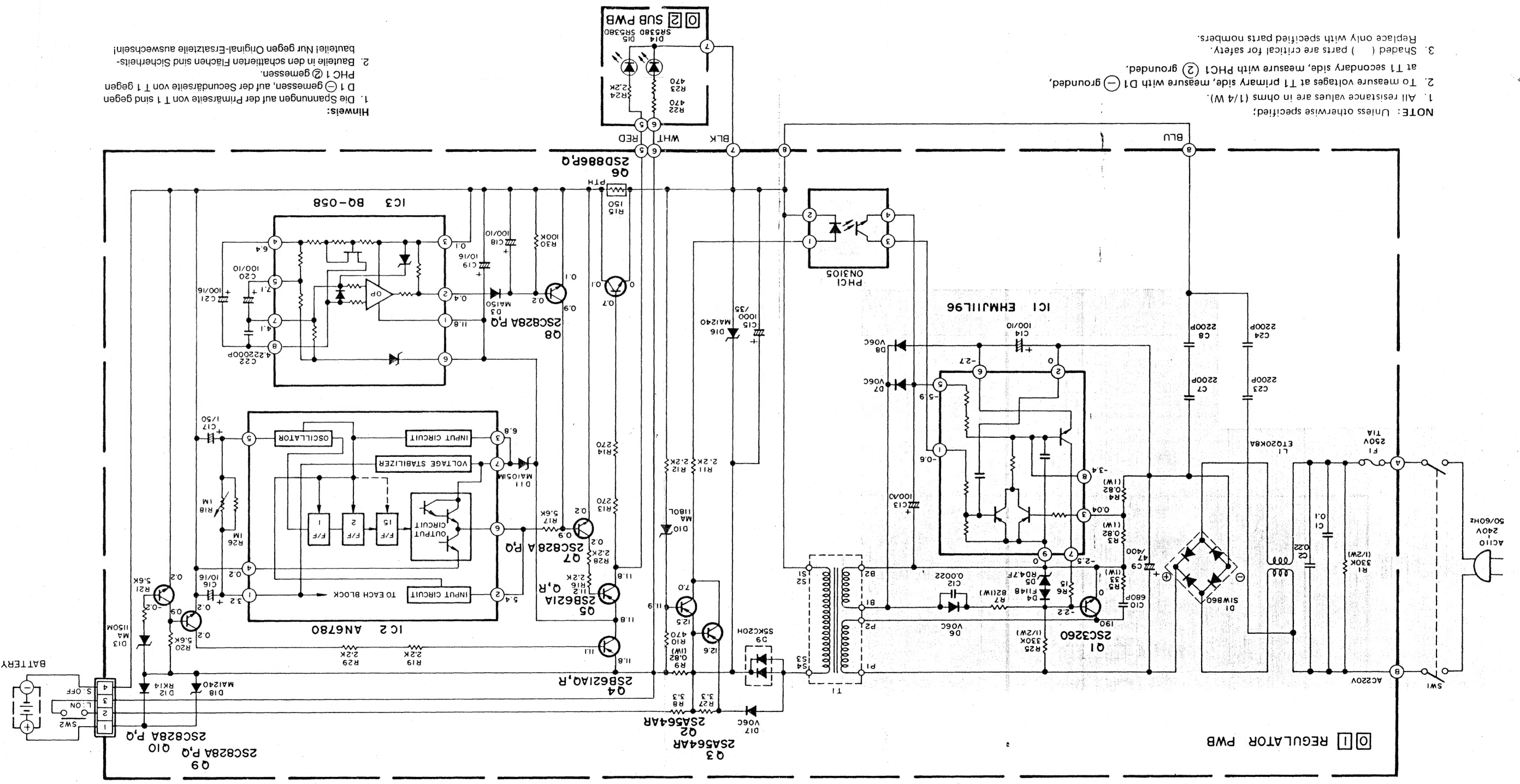


D11, D12 : SLP155B-01



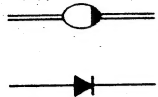
D1, D2 : 20E2FC  
D3 : MA162  
D6 : 21DQ04FC  
D5, D13, D15, D18 : MA150



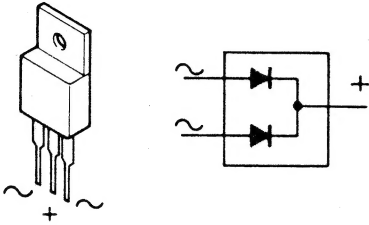


# Akku-Ladegerät Battery charger

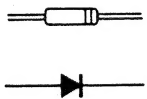
D6, D7, D8, D17 : V06C  
D4 : F114B



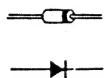
D9 : S5KC20H



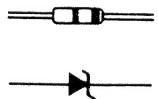
D3 : MA150



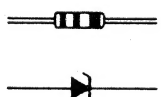
D12 : RK14



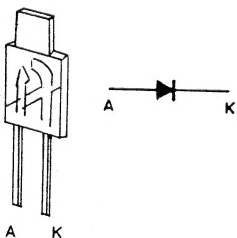
D10 : MA1180L  
D13 : MA1150M  
D16 : MA1240



D11 : MA1051M



D14, D15 : SR538D



D5 : RD4.7F

